

City of Madison

Conditional Use

Location 3801 E Washington Ave

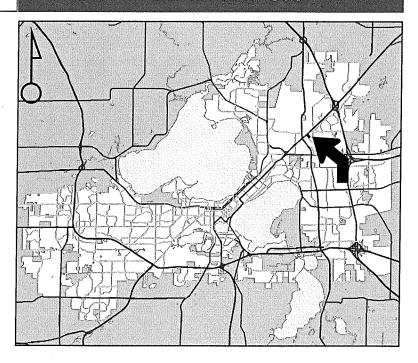
Project Name
Tesla Supercharging Station

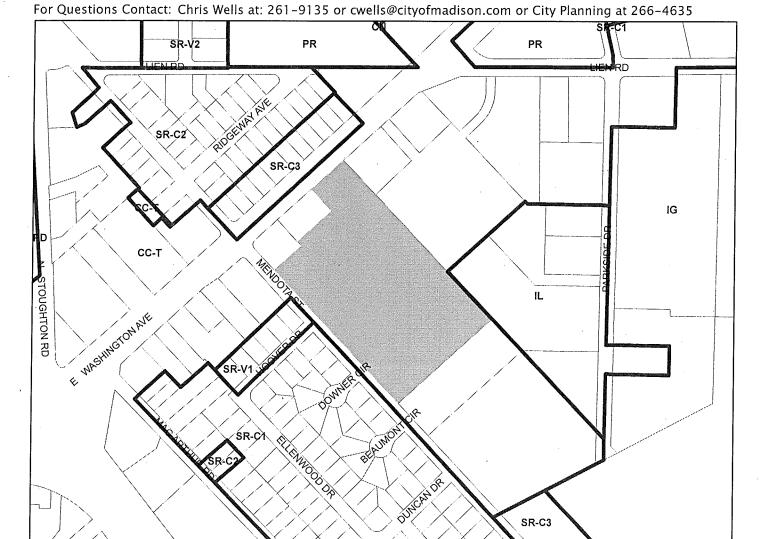
Applicant Hy-Vee Inc / Christina Suarez, Black & Veatch

Existing Use Grocery Store

Proposed Use Construct auto service station (electric vehicle charging station) in Urban Design Dist. 5

Public Hearing Date Plan Commission 28 August 2017



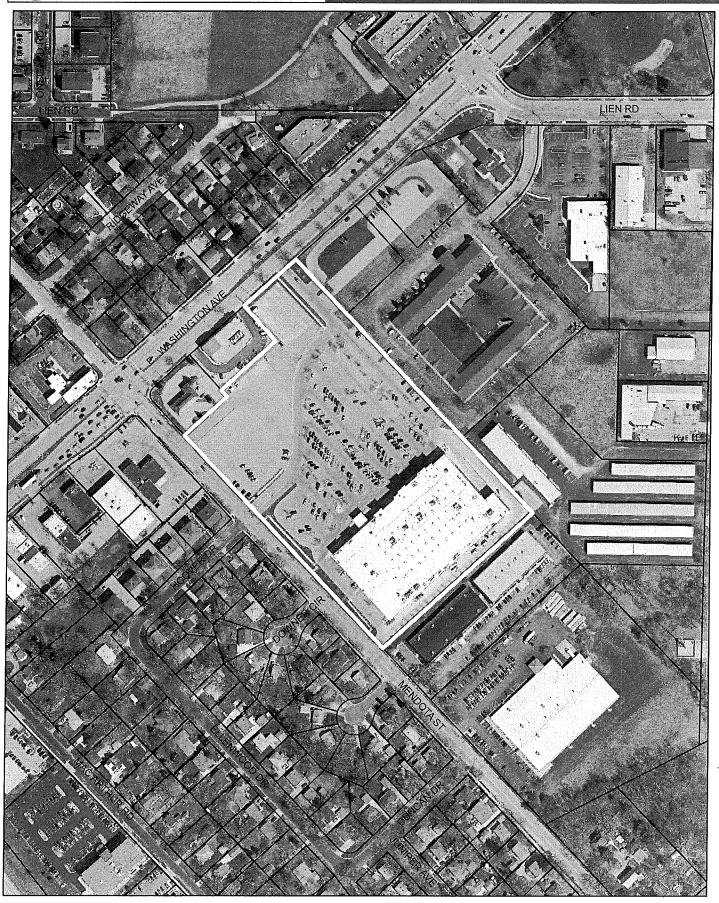


Scale: 1" = 400'

City of Madison, Planning Division: PPE: Date: 21 Aug 2017



City of Madison



Date of Aerial Photography: Spring 2016

LAND USE APPLICATION



1. Project Information



Telephone

City of Madison Planning Division 126 S. Hamilton S P.O. Box 2985 Madison, WI 5370 (608) 266-4635		Date received Received by Parcel #	Y: Receipt#
Zoning Office at the This completed for applications for Plasubdivisions or lar	rm is required for all an Commission review except nd divisions, which should be odivision Application found on	Aldermanic district Zoning district Special requirements Review required by UDC Common Council Reviewed By	PC Other
	801 E. WASHINGTON		NIOO9 MADISON
☐ Zoning Map A☐ Major Amend☐ Major Amend☐ Review of Alte		pment-General Develo pment-Specific Implem (by Plan Commission)	pment Plan (PD-GDP) Zoning
Applicant, Agent a Applicant name Street address	and Property Owner Information BLACK & VEATCH FOR 3500 DEER CREEK RD	CompanyTESL City/State/ZipPA <i>L</i>	A MOTORS, INC. D ALTO, CA 94304
Telephone		Email	· · · · · · · · · · · · · · · · · · ·
Project contact pe	rson CHRISTINA SHAREZ	FOR BLAC	CK F VEATCH
Street address Telephone	5885 MEADOWS RD. 541 · 490 · 3080	_City/State/Zip <u>LAKE</u> _Email <u>SNATEZ (</u>	OSWEGO, OR 97035 C. O. bv. com
Property owner (if	f not applicant) HY-VEE N	C	
Street address	5820 WESTOWN PKWY V	V. City/State/Zip Des	S MOINE, LOWA 50266

Email

		Est A Pa
4. Project Description		
Provide a brief descr	iption of the project and all proposed uses	of the site:
INSTALLATION	OF TESLA SUPPRCHARGER	STATIONS FOR ELECTRIC CAR CHURCH
IN PARKING L	OT OF HY VEE STORE. AT PA	EDIET ADDRESS
	Au6. 2017 Planned com	
5. Required Submittal	Materials	
Refer to the Land Us	e Application Checklist for detailed submitta	al requirements.
☐ Filing fee	☐ Pre-application notification	☐ Land Use Application Checklist (LND-C)
	on 🗹 Vicinity map	☐ Supplemental Requirements
☐ Letter of intent	☑ Survey or existing conditions site p	lan ☑ Electronic Submittal*
☐ Legal description	☐ Development plans	
or flash drive, or submitt and applicant name. Elec	ed via email to pcapplications@cityofmadison.com	al PDF files of each item submitted should be compiled on a CD n. The email must include the project address, project name, Dropbox.com) are not allowed. Applicants who are unable to (608) 266-4635 for assistance.
Following the pre-app submitted to the UDC	lication meeting, a complete UDC Application	g with the UDC Secretary is required prior to submittal. form and all other submittal requirements must be bove, is required. Electronic submittals should be @cityofmadison.com.
6. Applicant Declaratio	ns	
		this application, the applicant is strongly ew process with Zoning and Planning Division staff.
Planning staff	KEVIN FIRCHOW	Date 5/26/17
Zoning staff		Date
☐ <u>Demolition Lists</u>	<u>erv</u>	
☐ Public subsidy is	being requested (indicate in letter of intent	t)
nearby neighbor List the alderpers	hood and business associations in writing r son, neighborhood association(s), business a	the applicant notify the district alder and any no later than 30 days prior to FILING this request. association(s), AND the dates you sent the notices: TO COPE ATTACHED RESPONSE
requirement or v notification is requ	vaive the pre-application notification requir	& Economic Development may reduce the 30-day rement altogether. Evidence of the pre-application oppy of the notification letters or any correspondence ls.
	at this form is accurately completed and al K ϕ VEATCH FOR.	l required materials are submitted:
Name of applicant TE	SLA MOTORS, INC	Relationship to property TENANT
Authorizing signature of	property owner (SEE A. TA CHED	LoA) Date

TESLA MOTORS, INC. NARRATIVE LETTER OF INTENT

Tesla Motors, Inc

Tesla Motors is a US based company that fully designs and manufactures the world's leading electric vehicles. To date, Tesla has delivered more than 100,000 cars across North America, Europe, and Asia. In our mission to accelerate the adoption of electric vehicles, Tesla has deployed a fast-charging solution called the Supercharger. Currently, over 300 Stations are installed in North America alone, with another 200 around the world and counting. Tesla Superchargers allow Model S owners to travel for free between cities along well-traveled highways in North America. Superchargers provide half a charge in as little as 20 minutes and are strategically placed to allow owners to drive from station to station with minimal stops.

Tesla vehicle charging stations, called Superchargers, allow owners of our car, Model S to charge for free. Model S is a 100% electric vehicle with range capability of up to 285 miles on a single charge significantly larger than any other electric vehicle on the road. The charging stations are available to Tesla customers 24 hours a day, 7 days a week. The station does not require any attendants or employees. Access to the charging stations is via existing roads, parking lots and sidewalks around the proposed site.

Because of the robust range, this car is ideal for road trips and daily driving alike. Traffic in general is minimally impacted during peak hours of travel. The process of Supercharging is very easy—customers stop at one of our charging stations, pull into a parking spot with a Tesla charging cable, and plug in their car. The average charge session is about 35 minutes, with cars fully charged in about 45 minutes if the battery is empty. Because charging is completely free, our customers heavily patronize local businesses to show their support for hosting the Supercharger. Road trippers can stop for a quick meal or shopping and have their Model S charged when they're done.

To maximize efficiency and minimize impact, the car alerts its owner through their cell phone that charging is complete. The national average for charge sessions at our Superchargers of various sizes is about 10-15 per day.

W1009 Madison Proposal

Tesla proposes to minimally impact a portion of the north east Hy-Vee parking lot to accommodate electric parking stalls. Tesla proposes to modify seven (7) existing parking stalls configured as angled parking in the existing Hy-Vee parking lot in order to create eight (8) straight electric vehicle charging stalls. Tesla proposes a back-in configuration. By grinding (13) angled parking lines and removing 23 feet of angled concrete curb and gutter along the east edge of the parking island, the space will be redistributed to create straight lined parking stalls. A portion of the existing pedestrian walkway, approximately 5 feet deep will be removed in front of the (8) modified spaces. A new concrete curb and landscape planter filled with bark mulch will be placed.

Each parking stall will be equipped with a Supercharger post. These posts are proposed to be placed at the back side of the new curb of the modified parking stalls to accommodate back-in charging. One (1) pedestrian light pole and fixture is proposed to be added behind the charge post, softly illuminating the vehicle charging stalls and the walkway to the store. The charge posts and light pole will be installed in the new planter.

Tesla proposes to install supercharging equipment cabinets within an 8 foot TREX composite fence enclosure located on the modified parking island. The TREX enclosure will be painted to best blend with the landscaped environment in which it is situated. The equipment enclosure will not be roofed and will have secured gates for maintenance access. Tesla will install a new transformer to power the Supercharger equipment, to be located across the walkway in the adjacent parking island south of the proposed enclosure.

Any landscape removed as a result of the proposed equipment enclosure will be replaced. A photosim has been provided as a visual aid, but due to the seasonal hues, the muted colors are somewhat difficult to visually interpret and require careful observation. Two (2) trees are proposed to be relocated (removed and replaced). (1) tree will be removed from an existing planter along the pedestrian walkway and planted in the new planter along the back side of the charge posts, in proximity to another existing tree; and (1) tree removed from the parking island will be relocated to the east edge of the parking island next to the proposed enclosure. Additional landscaping will be provided to mitigate these changes. (6) Additional bushes (switch grass) will be placed in the new planter as well as around the enclosure to soften and blend with the existing landscape. The existing planter in the walkway that had the tree removed will be filled with concrete and made part of the pedestrian walkway to the Hy-Vee Store.

With minimal impact to the current use and parking configuration, TESLA proposes to be construction complete within 30-45 days following permit issuance. Tesla's proposal will have minimal impact to the Hy-Vee Store traffic flow. The charging stations are available to Tesla customers 24 hours a day, 7 days a week. The station does not require attendants or employees, and access to the charging stations is via existing roads and driveways. This proposal will provide charging customers 24/7 access to shopping, food and services. Hy-Vee is touted as having an expansive array of food and products, thus making this location a win-win, ideal for TESLA customers and great for the local economy.



SUPERCHARGING STATION

MADISON

WI009_MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SITE INFORMATION PROPOSED TESLA EV SITE ADDRESS: 3829 E WASHINGTON AVE MADISON WI 53704 **EXISTING SITE ADDRESS:** 3801 E WASHINGTON AVE MADISON, WI 53704 PROPERTY OWNER: HY-VEE, INC 5820 WESTOWN PARKWAY WEST DES MOINES, IW 50266 (515) 453-2795 **EQUIPMENT SUPPLIER:** TESLA MOTORS, INC 3500 DEER CREEK RD PALO ALTO, CA 94304 (650) 681-5000 POWER COMPANY MADISON GAS & ELECTRIC CONTACT: KEITH VANDEN WYMELENBERG LATITUDE (NAD83): 43.11925° LONGITUDE (NAD83): 89° 19' 9.36" W

-89.31927°

FLOOD PLAIN

CONTACT ENGINEER: RUSSELL POLLOM (913) 458-6274

POLLOMRE@BV.COM

NO BASE FLOOD ELEVATION.

FLOOD HAZARD AREA NOTE

AREA DETERMINED TO BE OUTSIDE 500-YEAR

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER

THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE

DRAWINGS MUST BE SUBMITTED THROUGH A

RFI REQUEST PROCESS WITH ENGINEERING

FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE

SIGNED AND SEALED SET OF DRAWINGS.

THIS SITE IS LOCATED IN FLOOD ZONE "X".

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: 2011 WISCONSIN COMMERCIAL BUILDING CODE **IBC 2009 WISCONSIN MECHANICAL CODE**

APPLICABLE CODES

NEC 2008 WISCONSIN ELECTRICAL CODE IBC 2009 WISCONSIN STRUCTURAL CODE IBC 2009 MFPA-1 WISCONSIN FIRE/LIFE SAFETY CODE WISCONSIN COMMERCIAL BUILDING CODE ADA STANDARDS (WISCONSIN COMMERCIAL BUILDING CODE)

Waunake

Mendoto

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL

AREA MAP

Madison

Monona

SITE

McFarland

PROJECT DESCRIPTION **INSTALL (4) TESLA SUPERCHARGER CABINETS INSTALL (8) TESLA CHARGING STATIONS**

INSTALL (1) OED SWITCHGEAR ASSEMBLY INSTALL (1) UTILITY TRANSFORMER

Sun Prairie

Cottage Gro

INSTALL (1) PEDESTRIAN LIGHT POLE AND FIXTURE

ZONING CLASS: SS-1 DO NOT SCALE DRAWINGS CONTRACTOR SHALL VERIFY ALL PLANS, **EXISTING DIMENSIONS & CONDITIONS ON THE** JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

ZONING INFORMATION

PERMITTING JURISDICTION: CITY OF MADISON

A-7 **LOCATION MAP** A-8 E-1 E-2 E-3 E-4 E-5 E-6 G-1 G-2 S-1 S-2 LS-1 LS-2

OVERALL SITE PLAN Е A-2 **DEMOLITION SITE PLAN** Е A-3 PROPOSED SITE PLAN E A-4 **ENLARGED PROPOSED EQUIPMENT LAYOUT** E A-5 SITE ELEVATIONS Ε A-6 SIGNAGE DETAILS **EQUIPMENT DETAILS** E **FENCE DETAILS** E UTILITY PLAN E ELECTRICAL PLAN E **ELECTRICAL DETAILS** ELECTRICAL DETAILS Е **ELECTRICAL DETAILS** Е **ELECTRICAL DETAILS** E GROUNDING DETAILS **GROUNDING DETAILS** STRUCTURAL DETAILS STRUCTURAL DETAILS LANDSCAPING PLAN LANDSCAPING DETAILS AND PLANT SCHEDULE FOR REFERENCE ONLY PROPERTY SURVEY

DRAWING INDEX

TITLE SHEET & PROJECT DATA

GENERAL NOTES 1

GENERAL NOTES 2

GENERAL NOTES 3

SHEET TITLE

ENGINEER OF RECORD

ROBLEY A. EVANS PE#37439-006 **BLACK & VEATCH CORPORATION**

CALL BEFORE YOU DIG



SHEET NO:

GN-1

GN-2

GN-3

A-1

LINDERGROUND SERVICE ALERT UTILITY NOTIFICATION CENTER OF WISCONSIN 811 OR 1-800-242-8511

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



3500 DEER CREEK RD PALO ALTO, CA 94304



6800 W 115th St, Suite 2292 OVERLAND PARK, KS 66211 (913) 458-2000

PROJECT NO:	192745
DRAWN BY:	AKJ
CHECKED BY:	CNS

REV NO

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_	1	I
		
E	06/07/17	RE-ISSUED FOR 100% REVIEW
D	06/02/17	RE-ISSUED FOR 100% REVIEW
С	05/09/17	RE-ISSUED FOR 50% REVIEW
В	09/24/17	RE-ISSUED FOR 50% REVIEW
Α	12/07/16	ISSUED FOR 50% REVIEW
REV	DATE	DESCRIPTION



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

WI009 MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SHEET TITLE

TITLE SHEET & **PROJECT DATA**

T-1

GENERAL CONSTRUCTION NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY GENERAL CONTRACTOR: OVERLAND CONTRACTING INC. (BLACK & VEATCH) CONTRACTOR: (CONSTRUCTION) OWNER: TESLA
- 2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
- 3. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, 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.
- 4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL 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 WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS
- 6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS
- 7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. 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. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- 8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 9. 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.
- 10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND 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.
- 11. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 12. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 13. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48
 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 15. 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.
- 16. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- 18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 20. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- 21. 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 PIERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.

GENERAL CONSTRUCTION NOTES CONT.

- 22. 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.
- 23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT FROSION
- 24. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
- 25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- 27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 29. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 30. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- 32. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED
- 33. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 34. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 35. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

ELECTRICAL NOTES

- 1. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- 2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. THE CONDITION OF EXISTING ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:

A. UL - UNDERWRITERS LABORATORIES

B. NEC - NATIONAL ELECTRICAL CODE

C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.

D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

E. SBC - STANDARD BUILDING CODE

F. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION

- 4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, BUT CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED.
- 5. EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING THE EQUIPMENT.
- 7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.

ELECTRICAL NOTES CONT.

- 8. THE CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
- 10. ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS
- 11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
- 13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- 14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- 16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- 17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- 18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- 19. TRENCHING AND BACKFILL: THE CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO GENERAL SITE WORK NOTES.
- 20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC. NEMA AND IEEE.
- 21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGER' UPON FINAL ACCEPTANCE.
- 23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
- 24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES. AS REQUIRED BY EXPOSURE TYPE.
- 25. ALL CONNECTIONS EXCEPT THE EV CHARGE CABLE TERMINATION IN THE CHARGE POST SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTIAL INC., COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED NO SUBSTITUTIONS.
- ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE.
- 27. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC, MEETING OR EXCEEDING NEMA TC2 1990. THE 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'.
- 28. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- 30. THE 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".
- 31. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- 32. ALL BOLTS SHALL BE STAINLESS STEEL.
- 33. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.



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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SHEET TITLE

GENERAL NOTES 1

SHEET NUMBER

GN-1

REINFORCED CONCRETE NOTES

- 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
- REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI-318 FOR MINIMUM CLEARANCES.
- 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. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
- 6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE
- 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 8. 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.
- DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL 2004, PUBLICATION SP-66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-08.
- 10. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

GENERAL SITE WORK NOTES

PART 1 - GENERAL

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

- 1.1 REFERENCES:
- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).
- 1.2 INSPECTION AND TESTING:
- A. GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. PERFORM INSPECTIONS BEFORE CONCEALING WORK WITH FOLLOW-ON ACTIVITIES (BACKFILL, CONCRETE POUR, ETC).
- 1.3 SITE MAINTENANCE AND PROTECTION:
- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- G. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
- H. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST, IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.

GENERAL SITE WORK NOTES CONT.

PART 2 - PRODUCTS

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
1 INCH (25.0 MM)	75 TO 100
3/4 INCH (19.0 MM)	80 TO 100
3/8 INCH (9.5 MM)	35 TO 75
NO. 4 (4.75 MM)	30 TO 60
NO. 30 (0.600 MM)	7 TO 30
NO 200 (0.075 MM)	3 TO 15

- 2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- 2.3 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2940.
- 2.4 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

PART 3 - EXECUTION

3.1 GENERAL

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIDABLE MATERIALS
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS, BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- 3.2 BACKFILL:
- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.

GENERAL SITE WORK NOTES CONT.

- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- E. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- F. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST. ASTM D 698.

3.3 TRENCH EXCAVATION:

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

3.4 TRENCH BACKFILL:

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

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

3.6 ASPHALT PAVING ROAD:

WISCONSIN STANDARD SPECIFICATION

PART 4 - WISCONSIN DEPARTMENT OF TRANSPORTATION PAVEMENT

A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.



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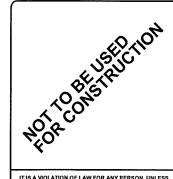
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WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SHEET TITLE

GENERAL NOTES 2

SHEET NUMBER

GN-2

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE: WIDE FLANGE SHAPE: A992, 50ksi
 - ANGLE AND CHANNEL SHAPE: ASTM A36, 36 ksi PLATE: ASTM A36, 36ksi PIPE: ASTM A53 GRADE B. 35 ksi HSS: ASTM A500 GRADE B. 46ksi
- HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325; ONE HIGH-STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
- WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED, WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
- FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
- 6. ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS. MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS, SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.
- PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11.

SIGN POST NOTES

1. ACCEPTABLE COLOR SUBSTITUTIONS:

PAINT COLOR SUBSTITUTIONS		
BRAND	COLOR	
PANTONE	COOL GREY #7 #a3a19e	
BENJAMIN MOORE	FUSION / Af-675 #a6a3a1	
BEHR	EQUINOX FF31-1 #9fa29d	
SHERWIN-WILLIAMS	STAMPED CONCRETE - 7655 #a2a29b	
VALSPAR	STONE MASON GREY #a19c99	

- 2. OTHER ACCEPTABLE COLORS CAN BE FOUND ON ENCYCOLORPEDIA.COM
- CONTRACTOR SHALL COORDINATE WITH CITY WHEN SPECIAL JURISDICTIONAL/CITY REQUESTS ARE NECESSARY FOR ANY SIGN POST INSTALLATIONS, I.E. POST MATERIAL, PAINT COLORS, HARDWARE, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING CITY APPROVES ALL MATERIALS PRIOR TO INSTALLATION.

CONCRETE MASONRY NOTES

- 1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F'M=1,500 PSI), MEDIUM WEIGHT, (115 PCF)
- MORTAR SHALL BE TYPE "S" ABOVE GRADE, TYPE "M" BELOW GRADE CONFORMING TO ASTM C270. (MINIMUM 1,800 PSI AT 28 DAYS)
- 3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS CONFORMING TO ASTM C476.
- ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
- ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
- 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.
- 7. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
- PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
- ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
- 10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.

CONCRETE MASONRY NOTES CONT.

- 11 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
- 12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- 13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
- 14. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104 OF IBC.
- 15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- 16. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
- 17. REFER TO DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
- 18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.
- 19. ALL MORTAR FIN OBSTRUCTIONS AND DEBRIS SHALL BE CLEANED FROM INSIDE OF CELLS PRIOR TO GROUTING.

SUPERCHARGER CABINET NOTE

PER NEC 625.22 - THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (SUPERCHARGER CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO ENSURE THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE OR CURRENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TESLA VEHICLE. THERE IS A 'HANDSHAKE' BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING. VOLTAGE IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE READING FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT BEGINS TO FLOW. IF AT ANY POINT IN THIS PROCESS A FAULT IS DETECTED. THE CHARGING WILL STOP IMMEDIATELY. WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ANY FAULT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS OF DETECTION. BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM OVER-CURRENT OR OVER-VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING FUSES ALSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

CONCRETE SIDEWALK CONSTRUCTION REQUIREMENTS

- PLACING AND FINISHING CONCRETE
 THE CONTRACTOR SHALL PROVIDE ADEQUATE TOOLS AND EQUIPMENT TO PRODUCE 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.
- **CONTRACTION JOINTS** 2.
 - THE SIDEWALK SURFACE SHALL BE MARKED OFF INTO NOMINAL SQUARES OF DIMENSIONS EQUAL 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.
- **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.



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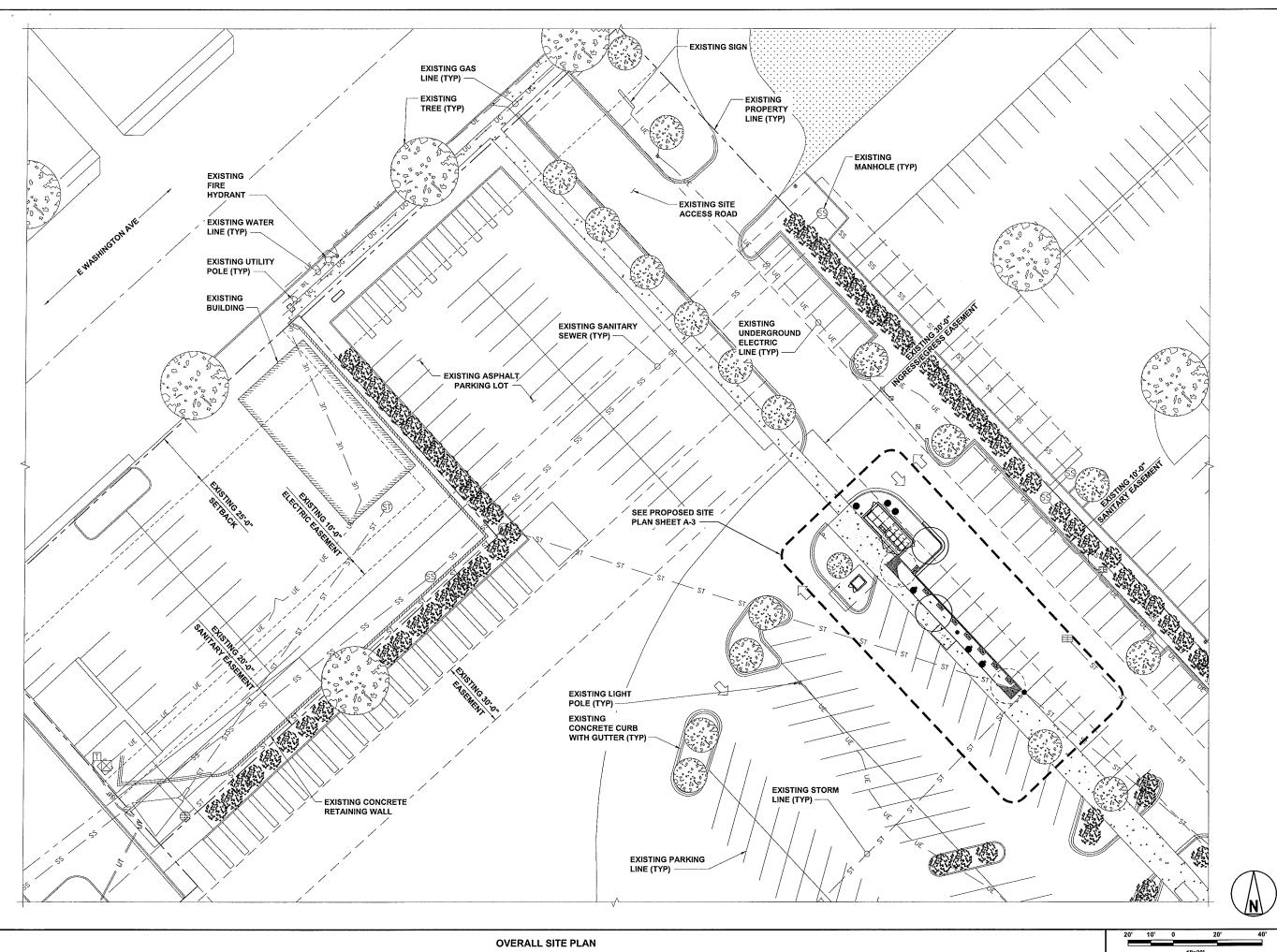


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WI009 MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

GENERAL NOTES 3

GN-3







6800 W 115th St, Suite 2292 OVERLAND PARK, KS 66211 (913) 458-2000

PROJECT NO:	192745
DRAWN BY:	AKJ
CHECKED BY:	CNS

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D	06/02/17	RE-ISSUED FOR 100% REVIEW
С	05/09/17	RE-ISSUED FOR 50% REVIEW
В	09/24/17	RE-ISSUED FOR 50% REVIEW
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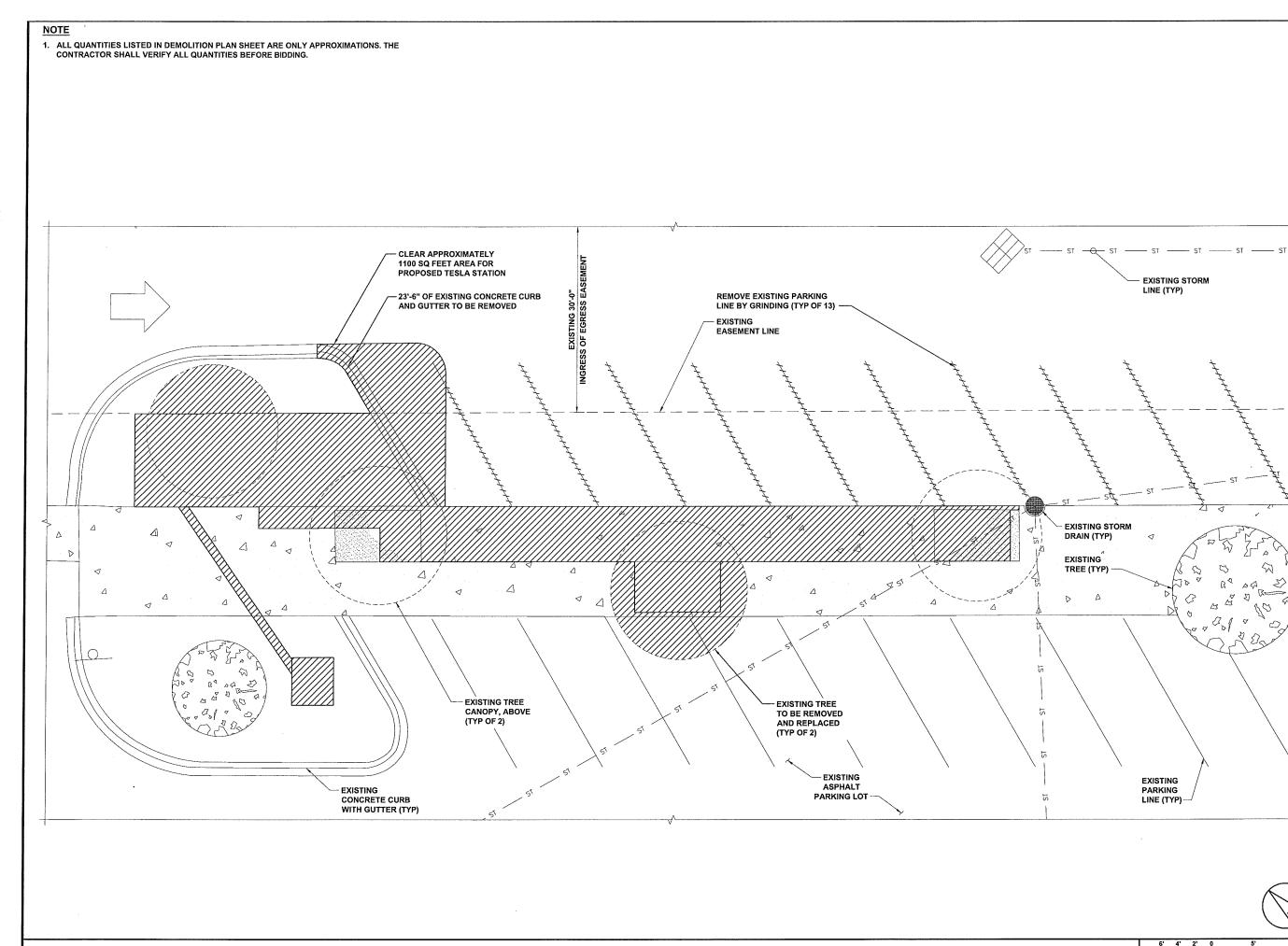
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SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

A-1







6800 W 115th St, Suite 2292 OVERLAND PARK, KS 66211 (913) 458-2000

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SHEET TITLE

DEMOLITION SITE PLAN

SHEET NUMBER

A-2

DEMOLITION SITE PLAN

NOTES

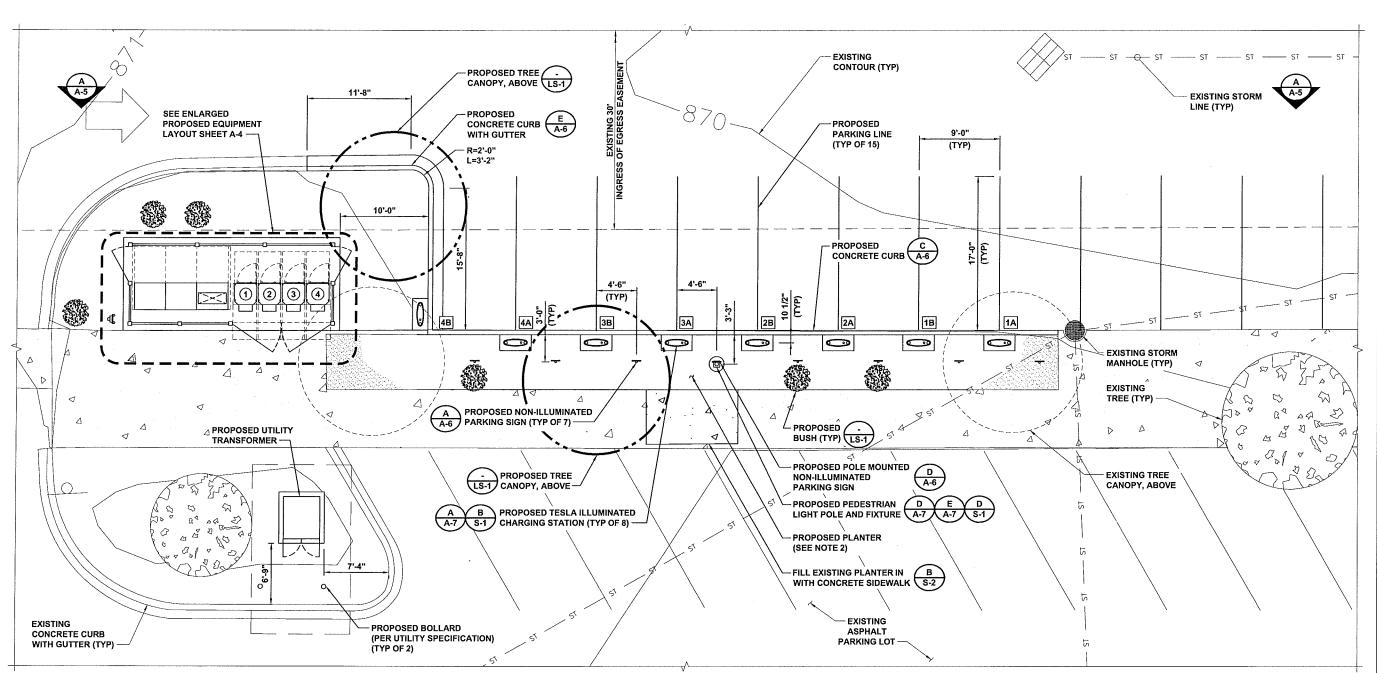
- SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- 2. FILL PROPOSED PLANTER AREA WITH BARK MULCH TO MATCH EXISTING.
- 3. PROPOSED PLANTER AREA TO BE ADDED EXCEEDS TOTAL PLANTER AREA TO BE

PROJECT AREA STALL COUNT	
EXISTING STALL COUNT 7	
PROPOSED TESLA CHARGING STALLS	8

TESLA EQUIPMENT SCHEDULE			
TESLA EQUIPMENT	DESCRIPTION	PART NUMBER	QUANTITY
SUPERCHARGING CABINETS	GEN 2 L-N SUPERCHARGER	1033026-04-E	4
CHARGE POST BOLLARDS	BOLT DOWN BOLLARDS	1024070-01-D	8
CHARGE POST JUNCTION BOX	DUAL CONDUCTORS	1048082-00-A	8
CHARGE POST DOCK	NORTH AMERICA	1028384-00-C	8

CHARGING POST CIRCUIT SCHEDULE		
SUPERCHARGER	CHARGE POST	DEDICATED / ENABLED
	1A	DEDICATED
	1B	DEDICATED
	2A	DEDICATED
(2)	2B	DEDICATED
	3A	DEDICATED
(3)	3B	DEDICATED
	4A	DEDICATED
4)	4B	DEDICATED





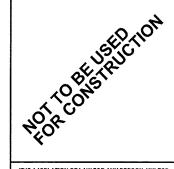


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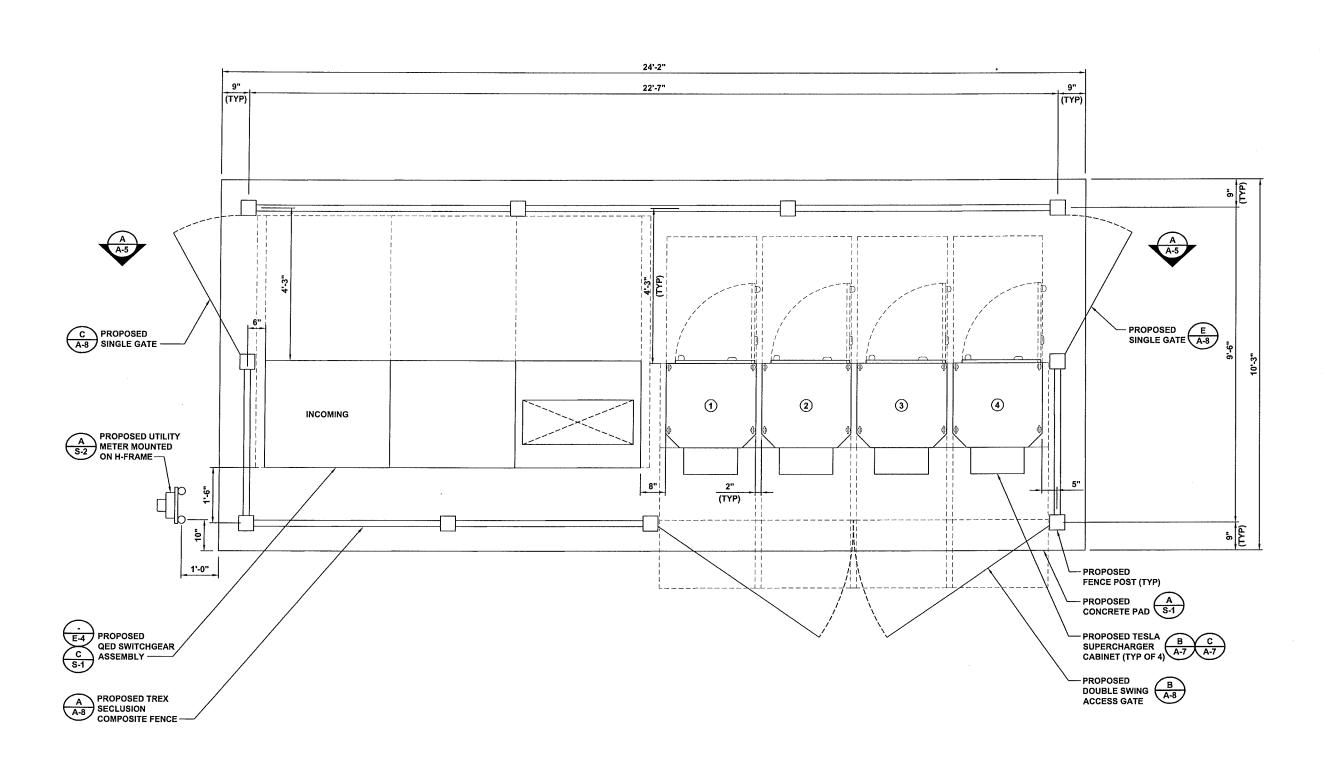
SHEET HILE

PROPOSED SITE PLAN

SHEET NUMBE

A-3

3/16"=1'-0"







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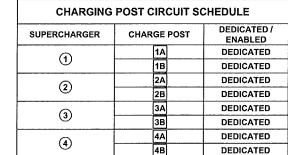
SHEET

ENLARGED PROPOSED EQUIPMENT LAYOUT

SHEET NUMBER

A-4

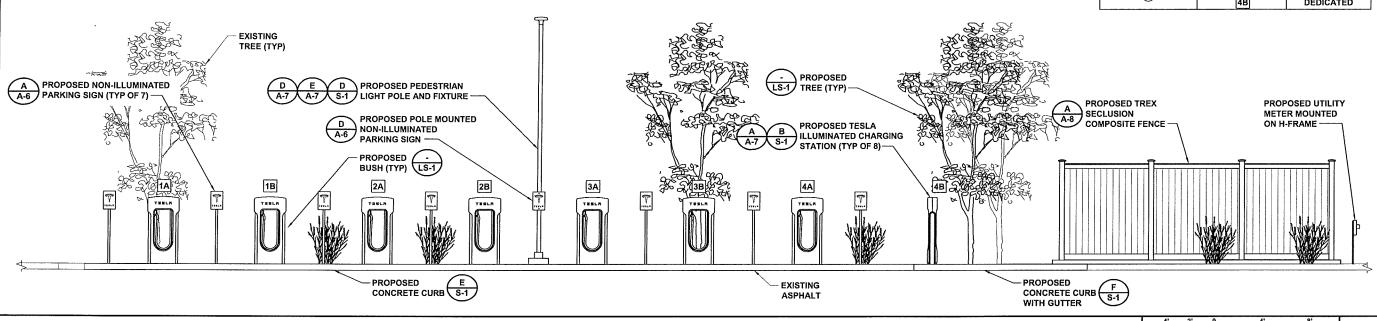
12" 6" 0 1' 2' 3'



1/4"=1'-0"

12" 6" O





BLACK & VEATCH

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(913) 458-2000

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ı	D	06/02/17	RE-ISSUED FOR 100% REVIEW
i	С	05/09/17	RE-ISSUED FOR 50% REVIEW
	В	09/24/17	RE-ISSUED FOR 50% REVIEW
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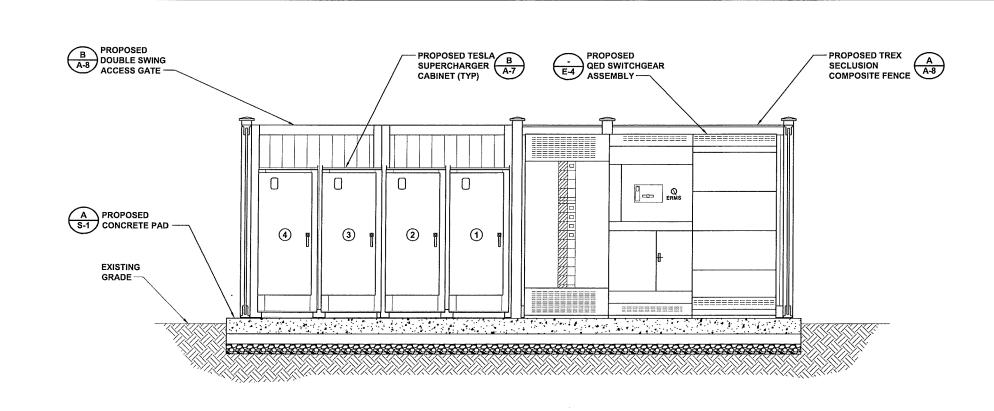
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SHEET TITLE
SITE ELEVATIONS

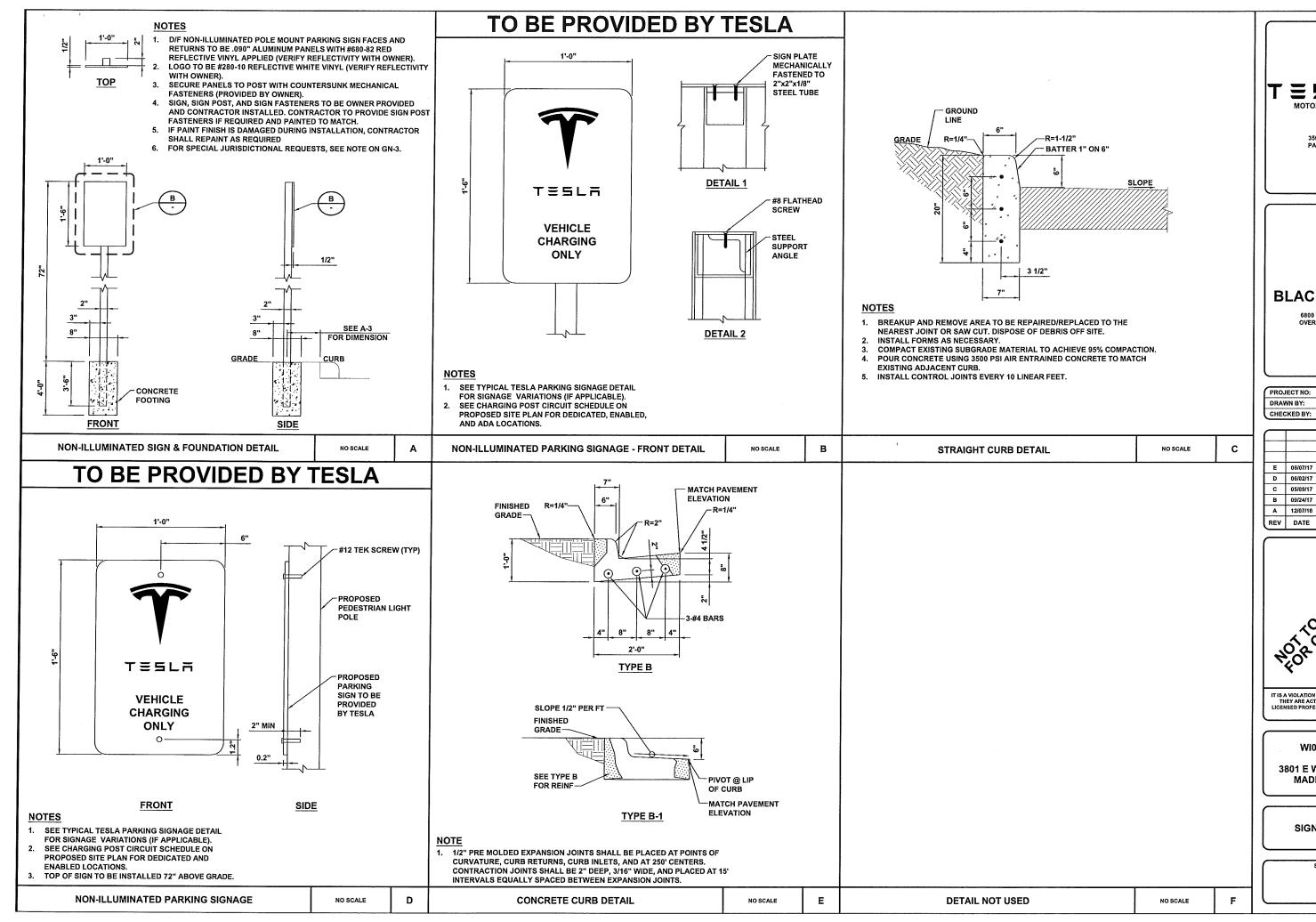
SHEET NUMBER

A-5

В



SITE ELEVATION







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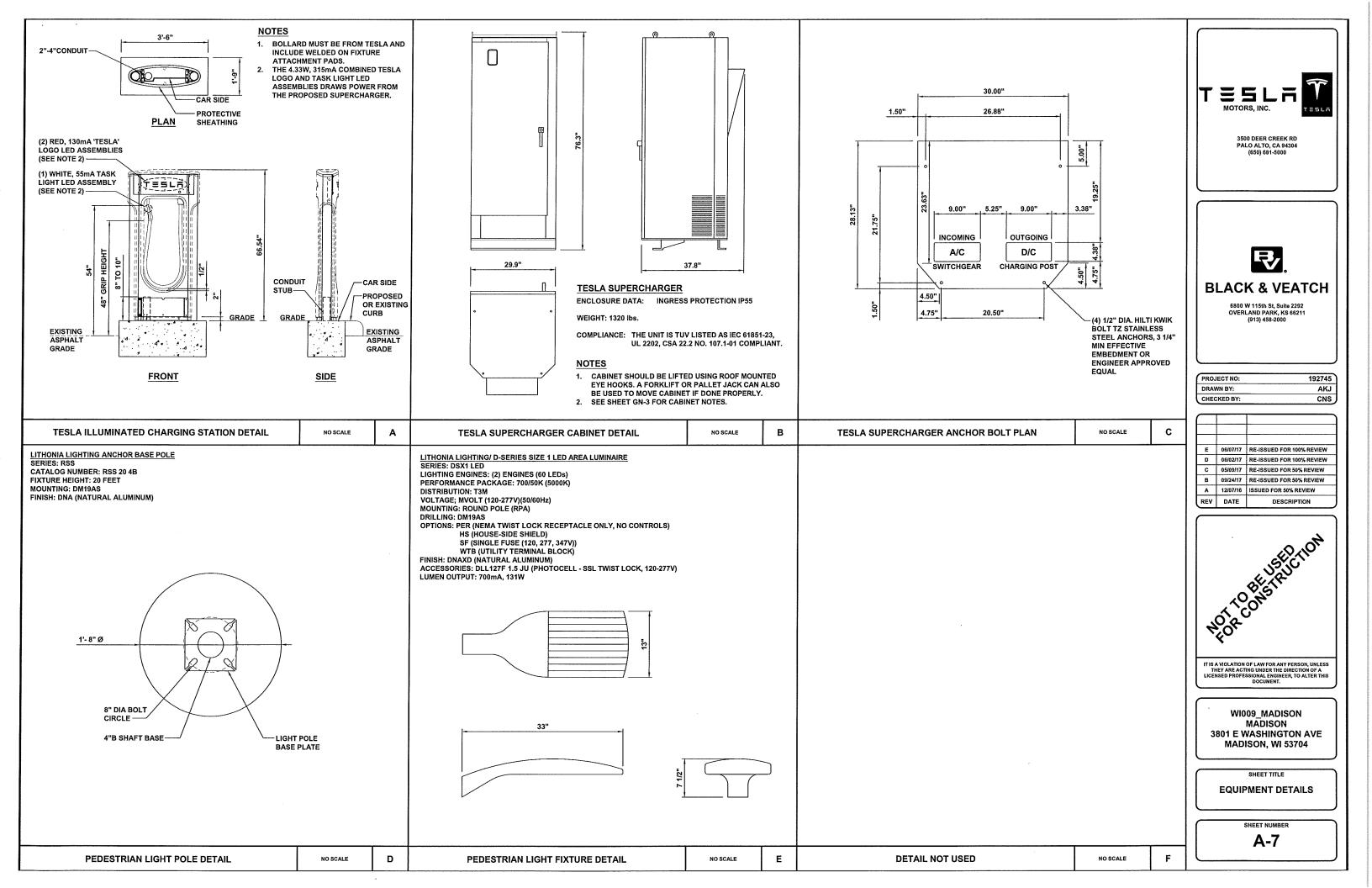
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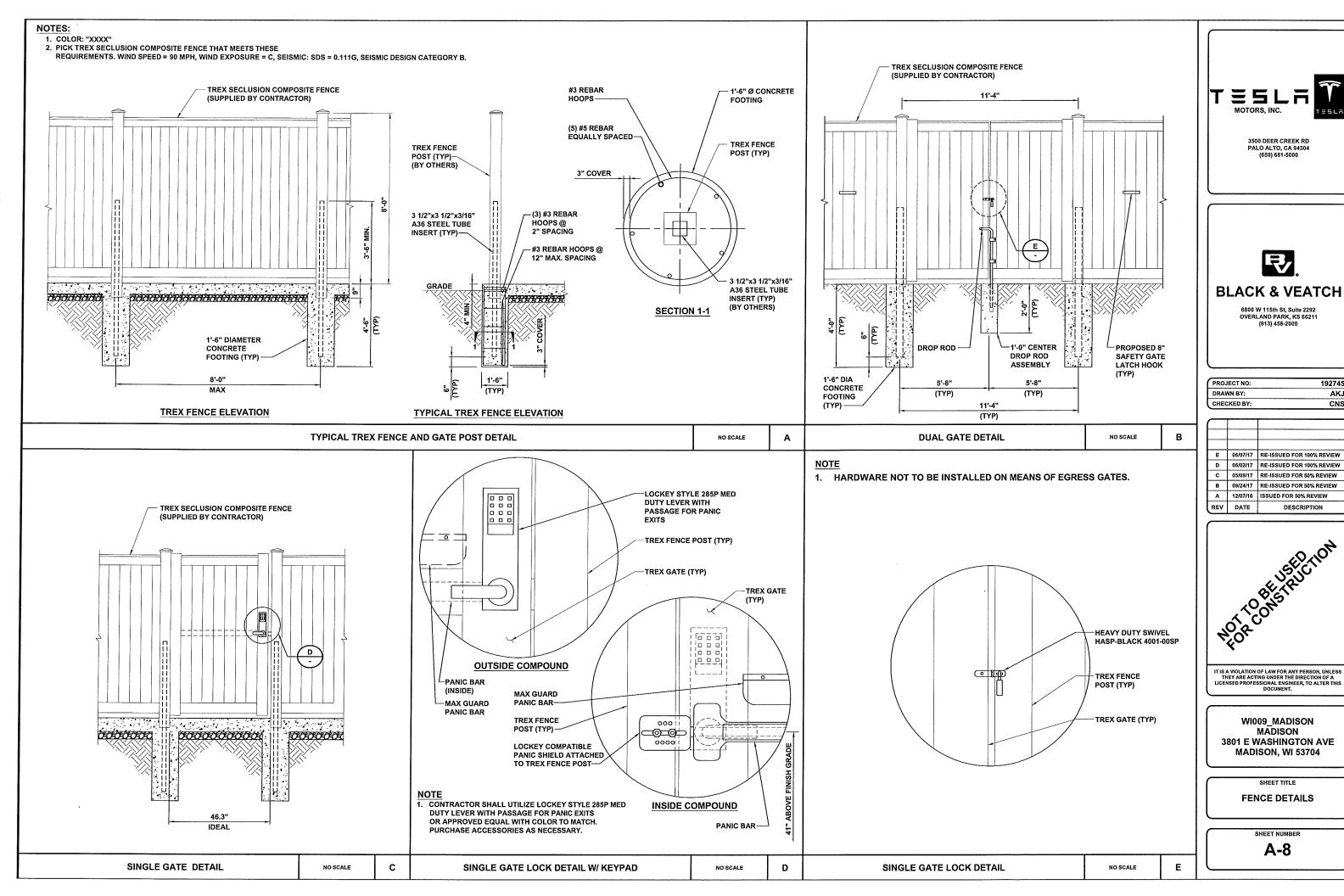
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SIGNAGE DETAILS

SHEET NUMBE

A-6





192745

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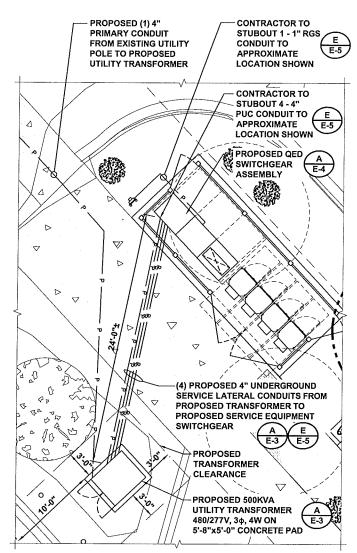
NOTES

- 1. THE UTILITY DESIGN DETAILS SUMMARIZED ON THIS SHEET ARE FOR PROPERTY
- 2. THE CONTRACTOR SHOULD 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.
- 3. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
- 4. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATION. ADDITIONAL BOLLARD REQUIREMENTS MAY BE DETERMINED AT THE DISCRETION OF THE UTILITY FIELD INSPECTION PERSONNEL.
- 5. CONTRACTOR TO COORDINATE THE TERMINATION OF THE SERVICE CONDUCTORS WITH THE UTILITY.

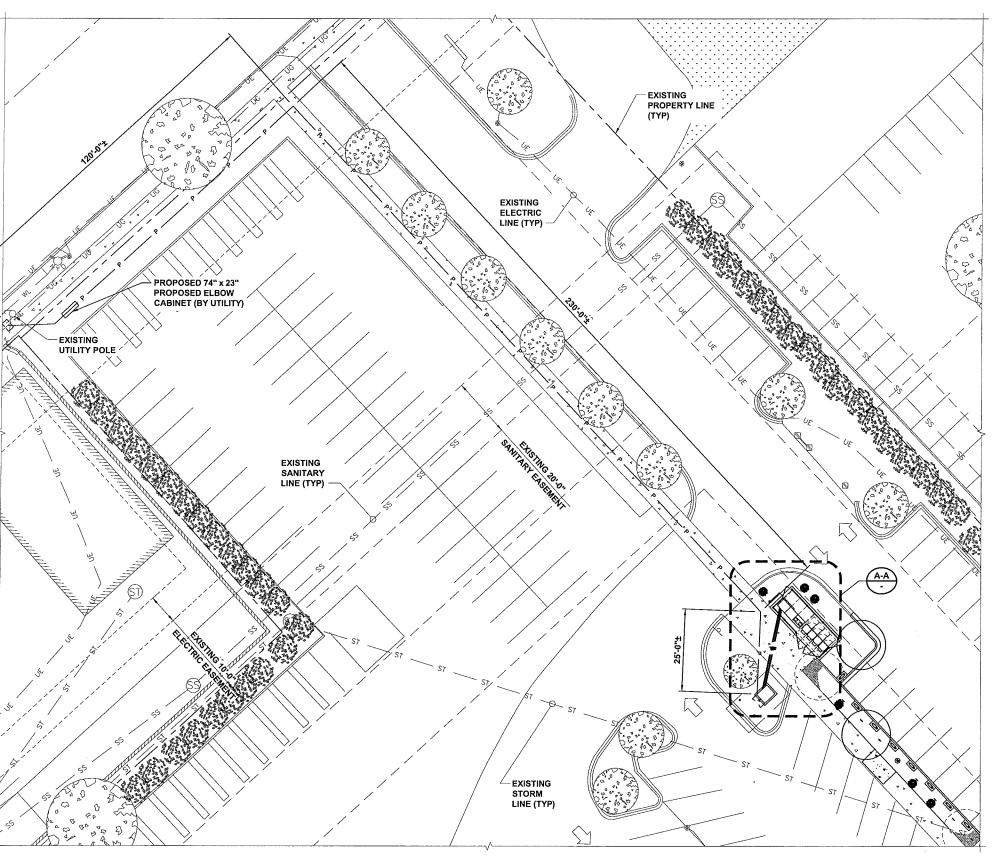
CONSTRUCTION RESPONSIBILITIES:

- UTILITY:
 PRIMARY SIDE BORING
- PRIMARY SIDE CONDUIT
- PRIMARY SIDE WIRING
- TRANSFORMER PAD/VAULT
- METERING CONDUIT (FROM STUBOUT) H-FRAME INSTALLATION
- SECONDARY TRENCHING (FROM STUBOUT)
 SECONDARY CONDUIT INSTALLATION
- SECONDARY WIRING

- METERING CONDUIT STUBOUT
- SECONDARY CONDUIT STUBOUT









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



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SHEET TITLE

UTILITY PLAN

SHEET NUMBER

E-1

16' 12' 8' 4' 0 580000000

NOTES AC UTILITY SERVICE CONDUCTORS: 22 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO AC CONDUCTORS: 16 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR

- *** DC CONDUCTORS: 22 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH.
- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS AND APPROXIMATED BURIED DEPTHS. 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).
- 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.
- 3. DC RUN LENGTH MAXIMUM IS 120'-0" INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS BEYOND THIS MAXIMUM SHALL BE ADDRESSED WITH THE APPROPRIATE ENGINEERING TEAMS AS SOON AS THE SITUATION ARISES.

	AC SUPERCHARGI	ER LENGTHS	
SERVICE EQUIPMENT	SUPERCHARGER	LINEAR LENGTH (FT)	**ESTIMATED LENGTH (FT)**
CIRCUIT 2 I-LINE PANEL	1	5	21
CIRCUIT 3 I-LINE PANEL	2	9	25
CIRCUIT 4 I-LINE PANEL	3	14	30
CIRCUIT 5 I-LINE PANEL	4	17	33
тот	TOTAL LENGTH OF AC Cu WIRE =		
TOTA	TOTAL LENGTH OF GND Cu WIRE =		

(SEE SHEET E-3 FOR WIRE CONFIGURATION) **TOTAL LENGTH OF AC Cu WIRE = SUM OF ESTIMATED LENGTH x 4 WIRES PER SUPERCHARGER

**TOTAL LENGTH GND Cu WIRE = SUM OF ESTIMATED LENGTHS

DC CH	ARGING	POST LENGTH	S
SUPERCHARGER	CHARGE POST	LINEAR LENGTH (FT)	***ESTIMATED LENGTH (FT)***
	1A	97	119
(1)	1B	87	109
<u> </u>	2A	75	97
(2)	2B	65	87
<u> </u>	3A	55	77
(3)	3B	43	65
<u> </u>	4A	28	50
4)	4B	12	34
TOTAL LENG	2552		
TOTAL LENGTH OF #3 AW	G GND Cu & C	OMM CABLE WIRE=	638

(SEE SHEET E-3 FOR WIRE CONFIGURATION) ***TOTAL LENGTH OF DC AL WIRE = SUM OF ESTIMATED LENGTH x 4 WIRES PER CHARGE POST

GND Cu AND COMM CABLE WIRE = SUM OF ESTIMATED LENGTHS





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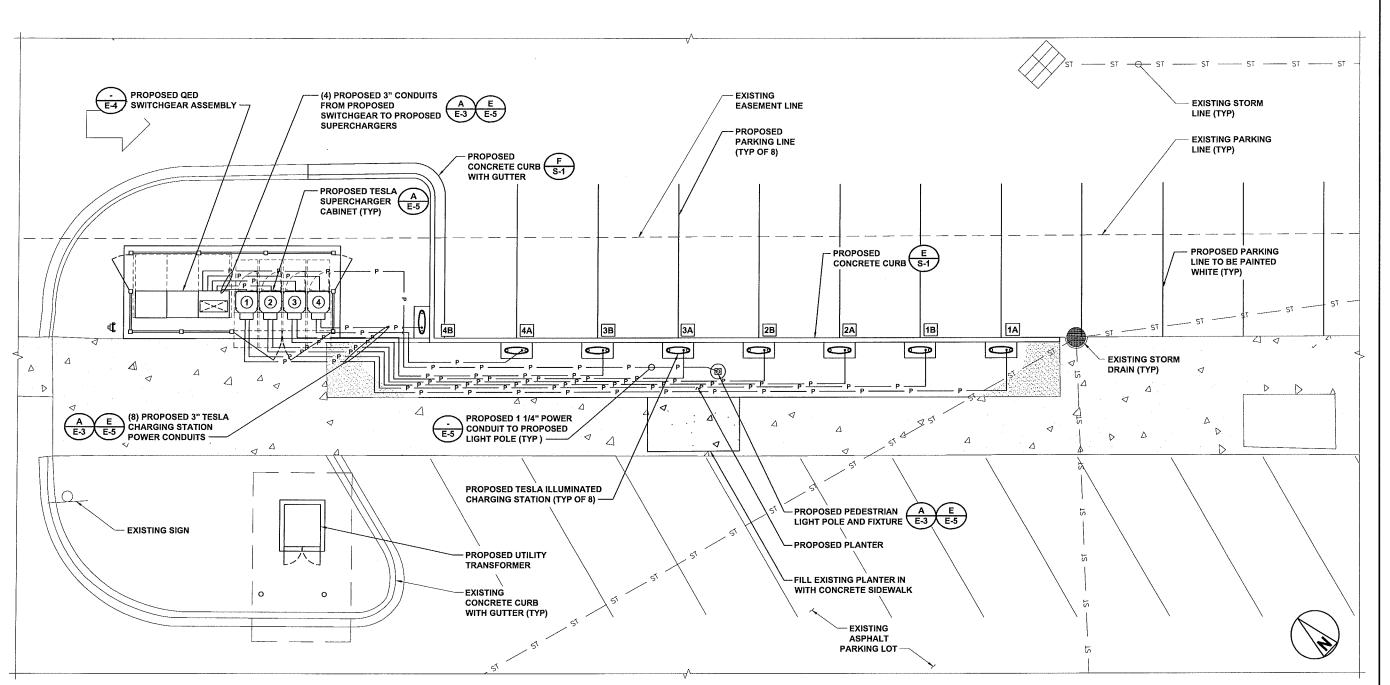
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> SHEET TITLE **ELECTRICAL PLAN**

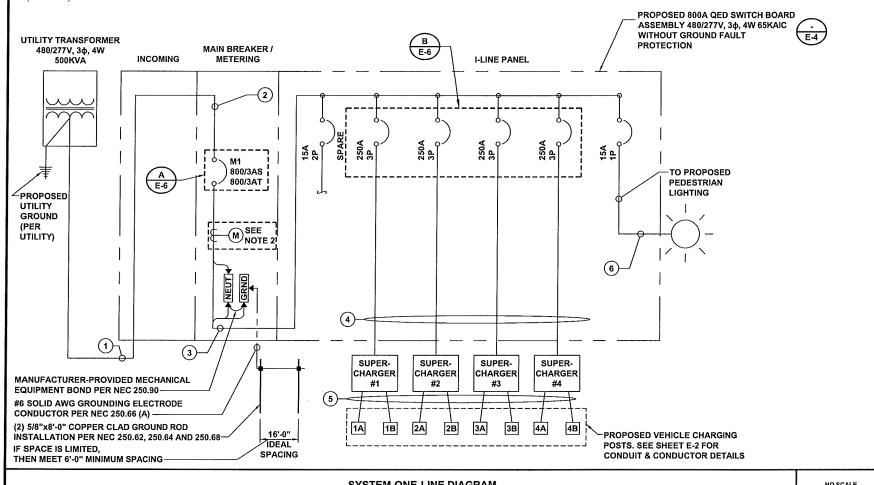
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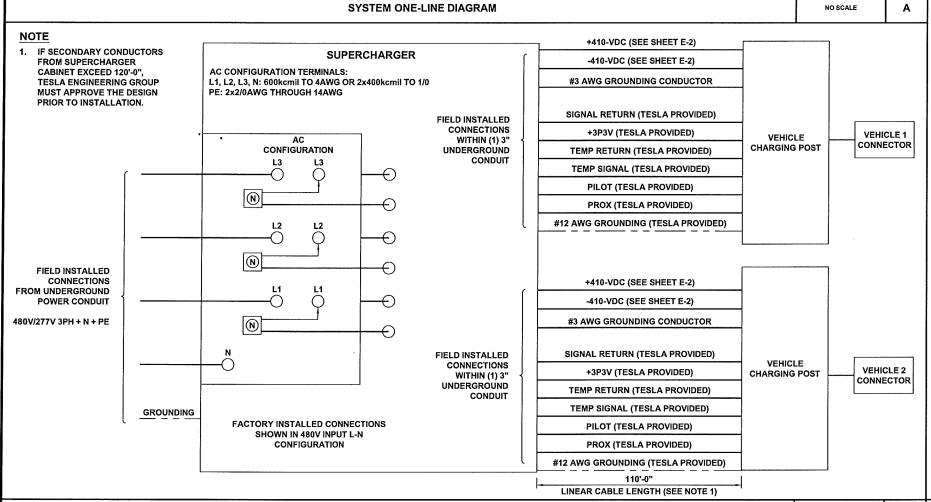
E-2



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

ELECTRICAL PLAN





SUPERCHARGER CONNECTION ONE-LINE DIAGRAM

	SERVICE EI	LECTRICAL CIRCUIT	SCHE	DULE
NO	FROM	то		CONFIGURATION
1	UTILITY TRANSFORMER	PROPOSED SERVICE EQUIPMENT; INCOMIN	3 SETS OF 500 MCM AL QWAD IN 4'-4" PVC CONDUITS (BY UTILITY) +(1) SPARE 4" CONDUIT	
2	PROPOSED SERVICE EQUIPMENT; INCOMING	PROPOSED SERVICE EQUIPMENT; 800A TRIP I BREAKER	FACTORY INSTALLED 800A BUSS	
3	PROPOSED SERVICE EQUIPMENT; 800A TRIP MAIN BREAKER	PROPOSED SERVICE EQUIPMENT; BRANCH CII DISTRIBUTION I-LINE PA	FACTORY INSTALLED 800A BUSS	
	PROPOSED SERVICE EQUIPMENT; CIRCUIT 2 I-LINE PANEL (250 AMP)	PROPOSED TESLA SUPERCHARGER#1		(3) 300MCM Cu (THWN-2), (1) 300MCM Cu (THWN-2) NEUT, (1) #4 Cu AWG GND IN 3" CONDUIT
	PROPOSED SERVICE EQUIPMENT; CIRCUIT 3 I-LINE PANEL (250 AMP)	PROPOSED TESLA SUPERCHARGER #2		(3) 300MCM Cu (THWN-2), (1) 300MCM Cu (THWN-2) NEUT, (1) #4 Cu AWG GND IN 3" CONDUIT
(4)	PROPOSED SERVICE EQUIPMENT; CIRCUIT 4 I-LINE PANEL (250 AMP)	PROPOSED TESLA SUPERCHARGER #3		(3) 300MCM Cu (THWN-2), (1) 300MCM Cu (THWN-2) NEUT, (1) #4 Cu AWG GND IN 3" CONDUIT
	PROPOSED SERVICE EQUIPMENT; CIRCUIT 5 I-LINE PANEL (250 AMP)	PROPOSED TESLA SUPERCHARGER #4		(3) 300MCM Cu (THWN-2), (1) 300MCM Cu (THWN-2) NEUT, (1) #4 Cu AWG GND IN 3" CONDUIT
	PROPOSED TESLA	PROPOSED TESLA	1A	(4) 250MCM AWG AL (THWN-2) + #3 AWG Cu GND + COMM CABLE (PER
	SUPERCHARGER #1	CHARGING POST	1B	TESLA) IN 3" CONDUIT
	PROPOSED TESLA	PROPOSED TESLA	2A	(4) 250MCM AWG AL (THWN-2) + #3 AWG Cu GND + COMM CABLE (PER
	SUPERCHARGER #2	CHARGING POST	2B	TESLA) IN 3" CONDUIT
(5)	PROPOSED TESLA	1		(4) 250MCM AWG AL (THWN-2) +
	SUPERCHARGER #3			(4) 250MCM AWG AL (THWN-2) + #3 AWG Cu GND + COMM CABLE (PE TESLA) IN 3" CONDUIT
	PROPOSED TESLA	PROPOSED TESLA	4A	(4) 250MCM AWG AL (THWN-2) + #3 AWG Cu GND + COMM CABLE (PER
	SUPERCHARGER#4	CHARGING POST 4B		TESLA) IN 3" CONDUIT
6	PROPOSED SERVICE EQUIPMENT: CIRCUIT 6 I-LINE PANEL (15 AMP)	PROPOSED 277V PEDESTRIAN LIGHT FUTURE		(1) #12 THAWN - 2 CU, (1) #12 THWN - 2 NGVT, (1) #12 AWG GND CU, IN 1 1/4 " CONDUIT

- 1. NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
- PROPOSED UTILITY CTs SHALL BE LOCATED WITHIN APPROVED CT COMPARTMENTS APPROVED BY UTILITY AS SHOWN IN THIS DRAWING PACKAGE.
- 3. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
- 4. CONTRACTOR TO USE 'SIMPULL THHN' ALUMINUM WIRING PER TESLA'S REQUIREMENTS
- WHEN ALUMINUM IS INDICATED IN THE CIRCUIT SCHEDULE ABOVE.

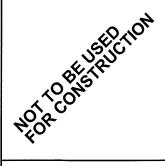
 5. AVAILABLE FAULT CURRENT AT THE TRANSFORMER IS XX,XXX AMPS





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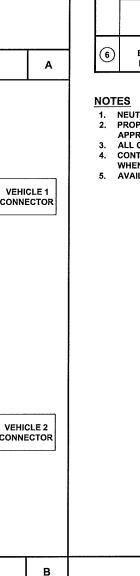
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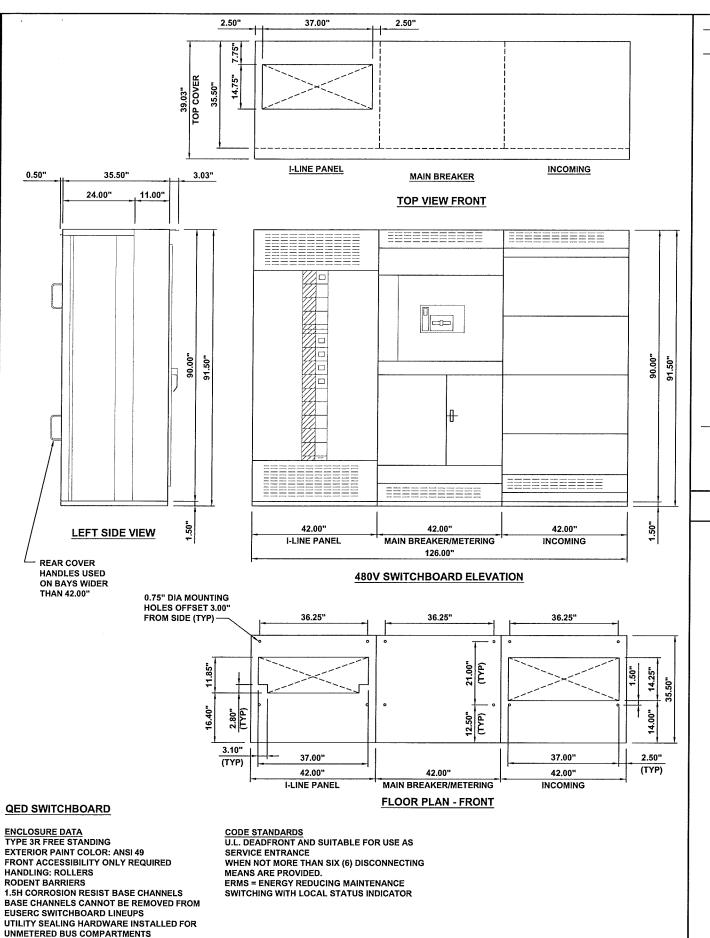
SHEET TITLE

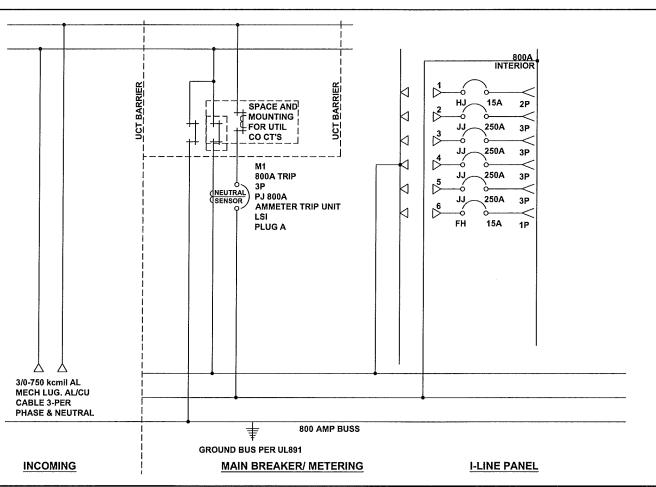
ELECTRICAL DETAILS

E-3



NO SCALE





CIRCUIT	GMD	DEVICE/	TRIP	FUSE/			İ		LUG INFO	ORMAT	ION	
	HEIGHT	FRAME RATING	AMP	TRIP	#P	DESIGNATION	N/P	QTY	PHASE WIRE RANGE	QTY	NEUT. WIRE RANGE	ACCESSORIES
-	-	INCOMING CONNECTION	-	-	-		NO	6	3/0 - 750 kcmil	6	3/0 - 750 kcmil	
•		STRIP HEATER	•	•	•	UTILITY	-	-	-	-	-	SHR
UCT	-	800A	-	-			NO	-	-	-	•	
M1	•	PJ 800AS PLUG A 100%	800A	A-LSI	3P		NO	-	•	-	-	GF, SDE, PLA
1	4.5"	нл	15A	S-LI	2P	SPARE	NO	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	PLA
2	4.5"	JJ 250 AMP 80%	250A	S-LI	3P		ИО	1	3/0 - 350 kcmil	1	3/0 - 350 kcmil	PLA
3	4.5"	JJ 250 AMP 80%	250A	S-LI	3P		ΝО	1	3/0 - 350 kcmil	1	3/0 - 350 kcmil	PLA
4	4.5"	JJ 250 AMP 80%	250A	S-LI	3P		NO	1	3/0 - 350 kcmil	1	3/0 - 350 kcmil	PLA
5	4.5"	JJ 250 AMP 80%	250A	S-LI	3Р	٠	NO	1	3/0 - 350 kcmil	1	3/0 - 350 kcmil	PLA
6	1.5"	FH	15A	S-LI	1P		NO	1	#12 - #4 AWG	1	#12 - #4 AWG	

QED SWITCHBOARD ONE-LINE DIAGRAM





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ELECTRICAL DETAILS

E-4

TO BE PROVIDED BY TESLA

QED SWITCHBOARD ASSEMBLY SPECIFICATIONS

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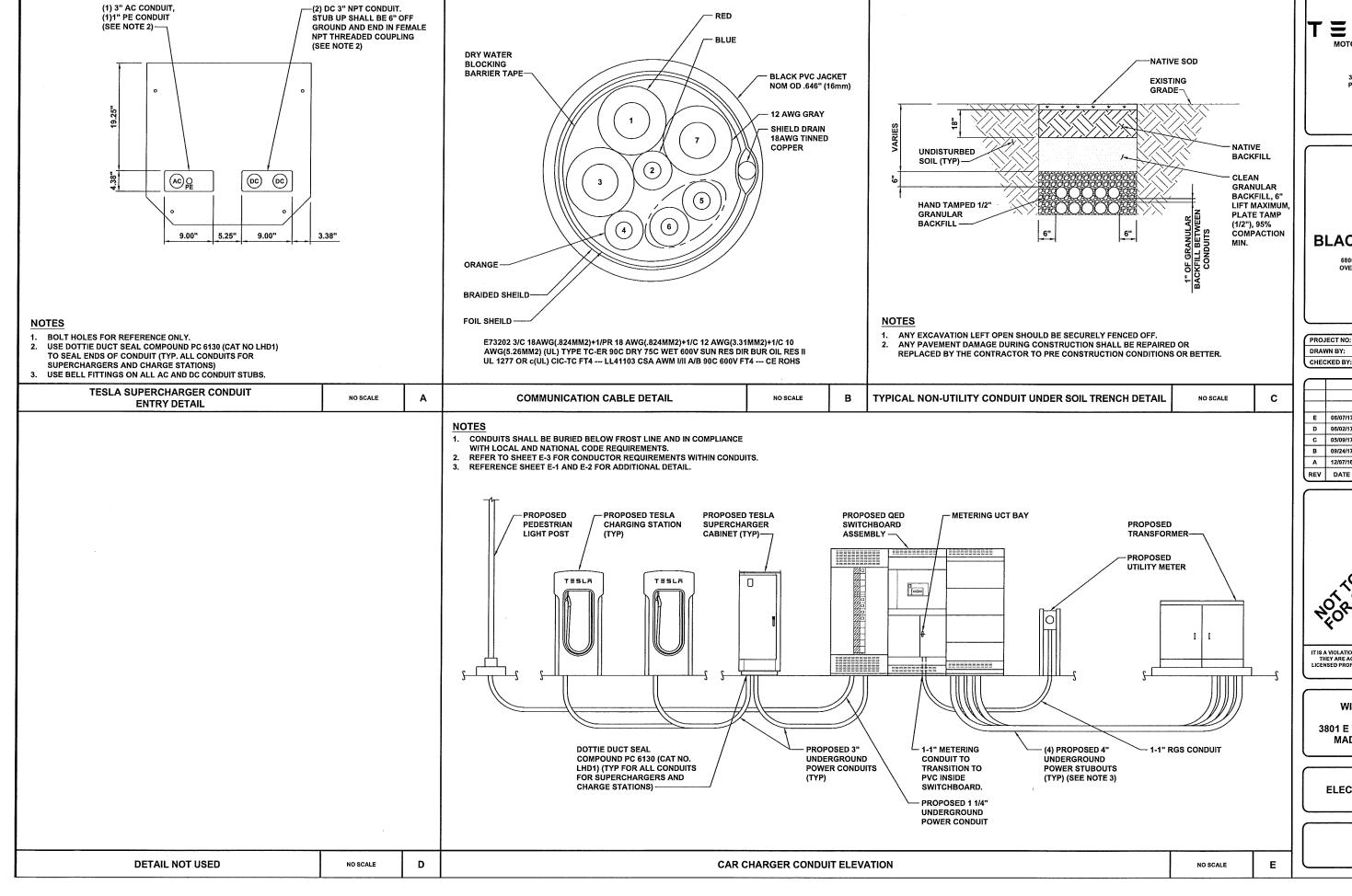
QED SWITCHBOARD CIRCUIT SCHEDULE

NO SCALE

NO SCALE

В

С



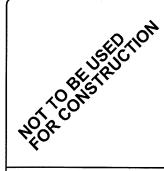
TO BE PROVIDED BY TESLA





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- 1		
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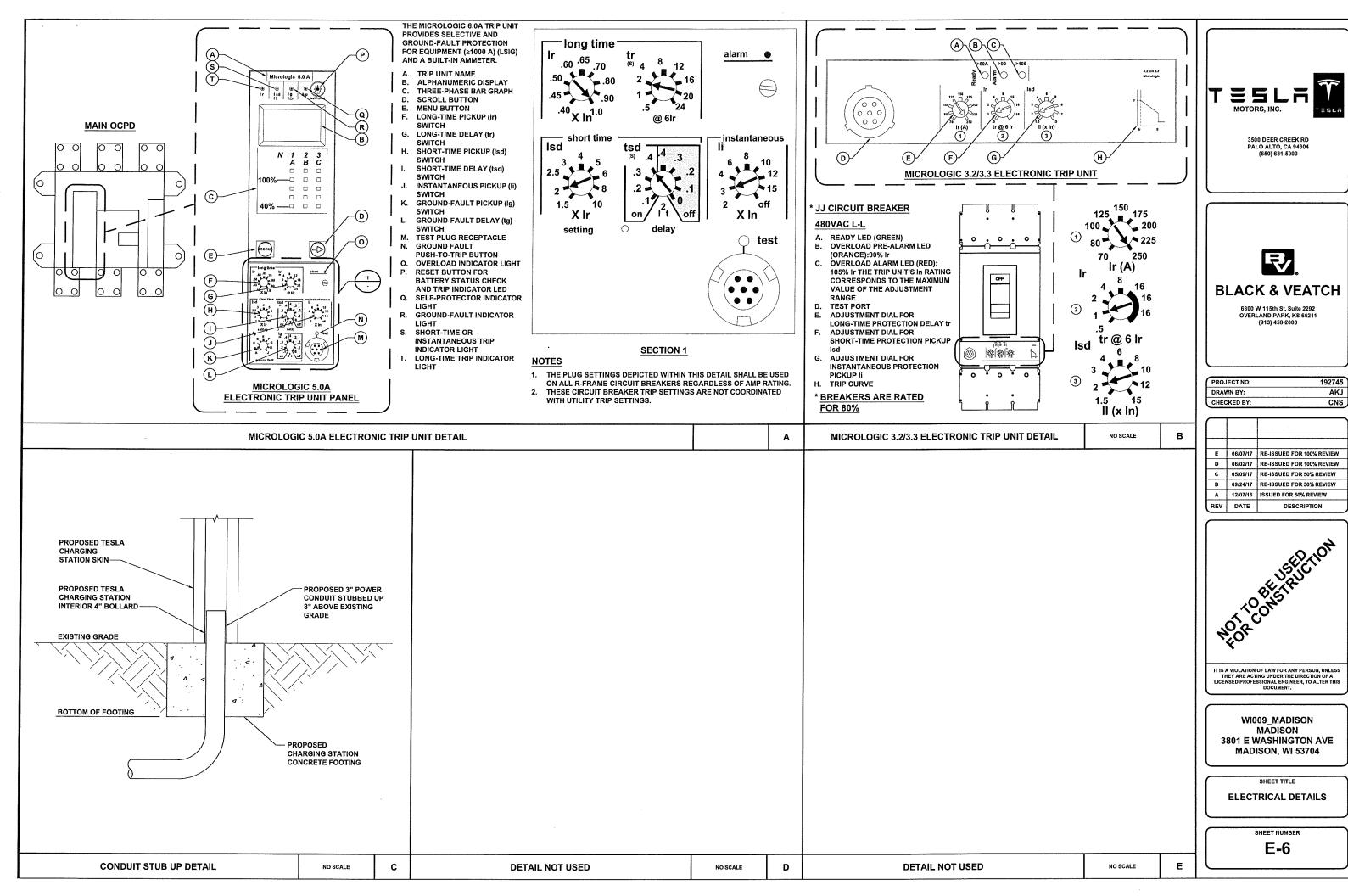
WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

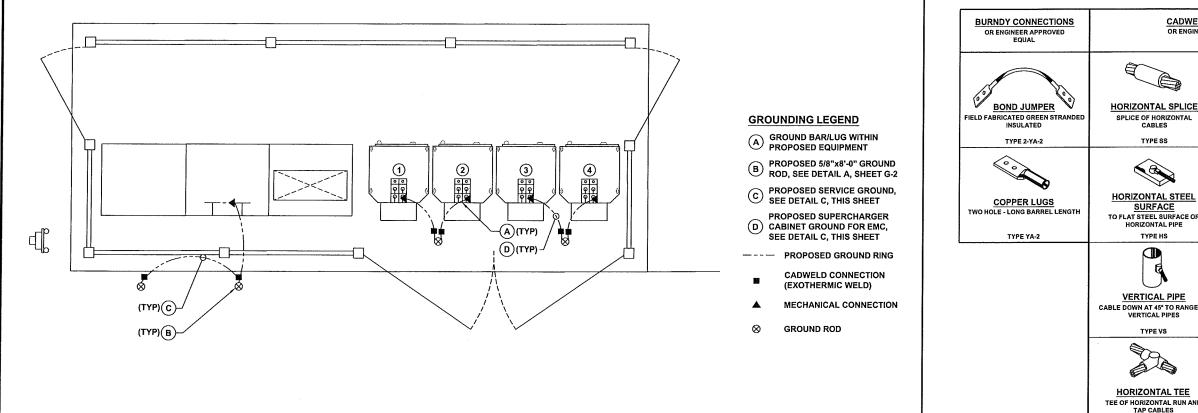
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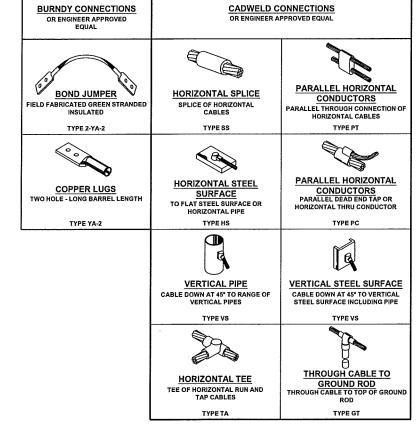
ELECTRICAL DETAILS

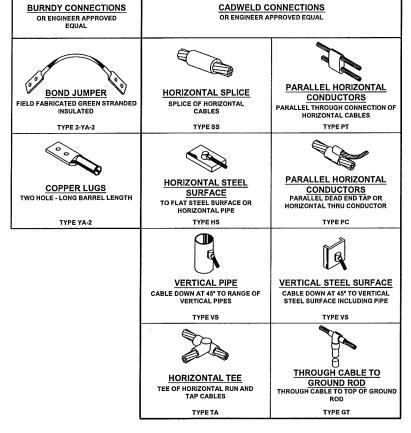
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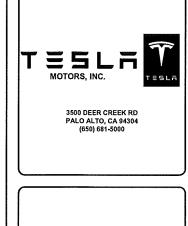
E-5













PROJECT NO:	192745
DRAWN BY:	AK
CHECKED BY:	CNS

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Е	06/07/17	RE-ISSUED FOR 100% REVIEW
D	06/02/17	RE-ISSUED FOR 100% REVIEW
С	05/09/17	RE-ISSUED FOR 50% REVIEW
В	09/24/17	RE-ISSUED FOR 50% REVIEW
А	12/07/16	ISSUED FOR 50% REVIEW
REV	DATE	DESCRIPTION
	D C B	D 06/02/17 C 05/09/17 B 09/24/17 A 12/07/16

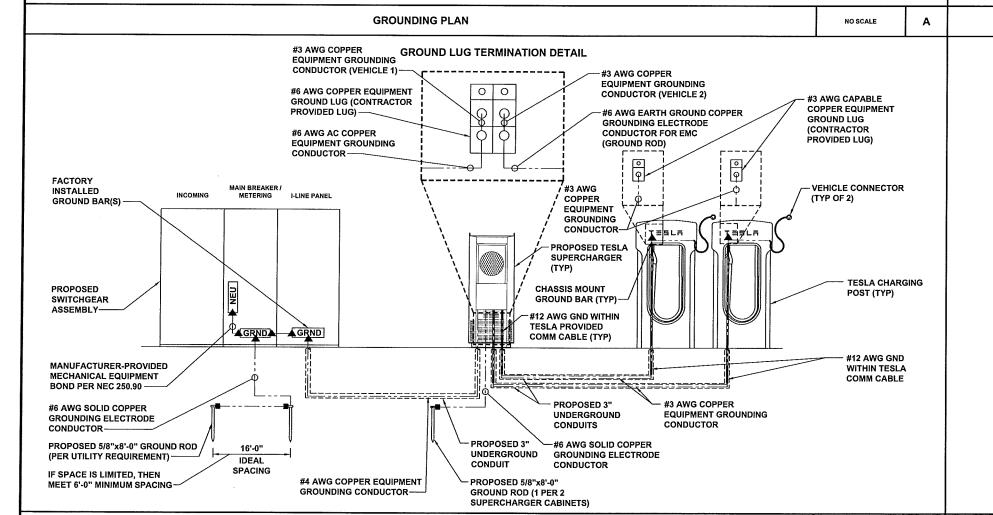


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WI009 MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

GROUNDING DETAILS

G-1



GROUNDING SCHEMATIC

NOTES

NO SCALE

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1. ALL GROUND BARS SHALL HAVE STAMPED IN TO THE METAL "IF STOLEN DO

NO SCALE

NO SCALE

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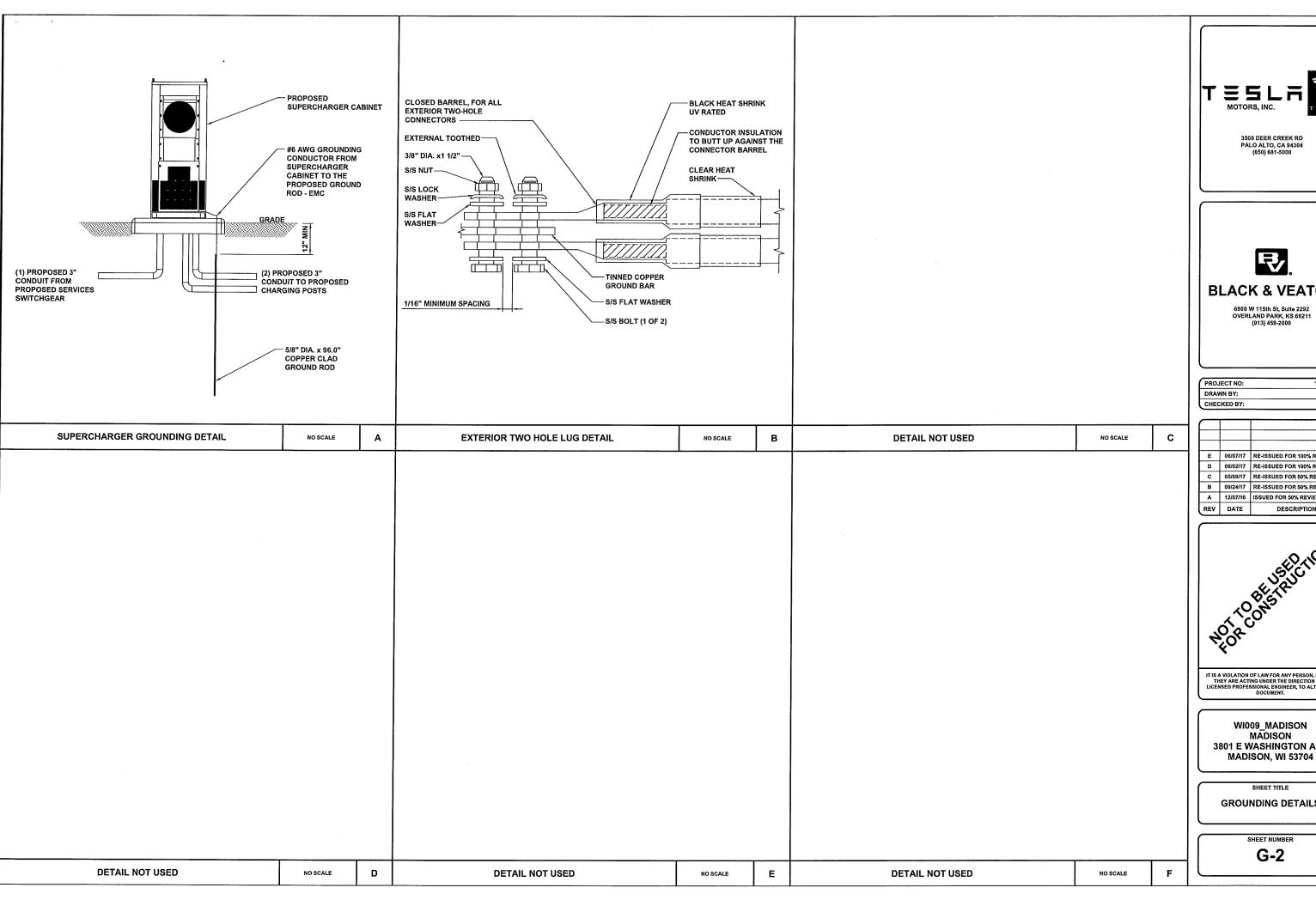
В

- 2. 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.
- 3. 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.
- 4. NUT & 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.
- 5. SUPPLIED AND INSTALLED BY CONTRACTOR.

CADWELD CONNECTION DETAIL

- 6. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL
- 7. TESLA CHARGERS HAVE INTERNAL HIGH IMPEDANCE GROUND FAULT PROTECTION (10M Ω).
- 8. EMC ELECTROMAGNETIC COMPATIBILITY

GROUNDING NOTES







PROJECT NO:	192745
DRAWN BY:	AKJ
CHECKED BY:	CNS

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E	06/07/17	RE-ISSUED FOR 100% REVIEW
- D	06/02/17	RE-ISSUED FOR 100% REVIEW
С	05/09/17	RE-ISSUED FOR 50% REVIEW
В	09/24/17	RE-ISSUED FOR 50% REVIEW
Α	12/07/16	ISSUED FOR 50% REVIEW
REV	DATE	DESCRIPTION

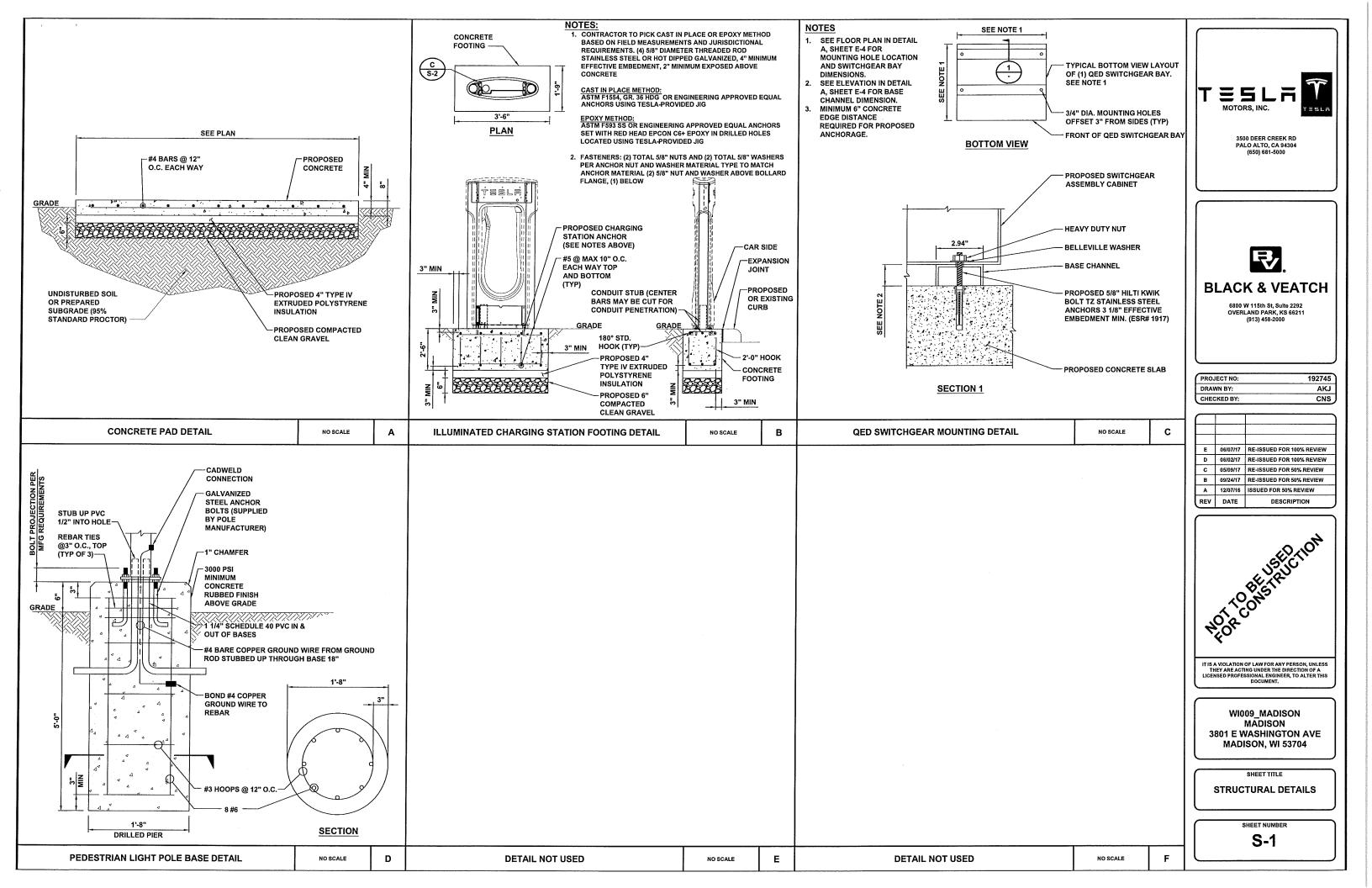
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

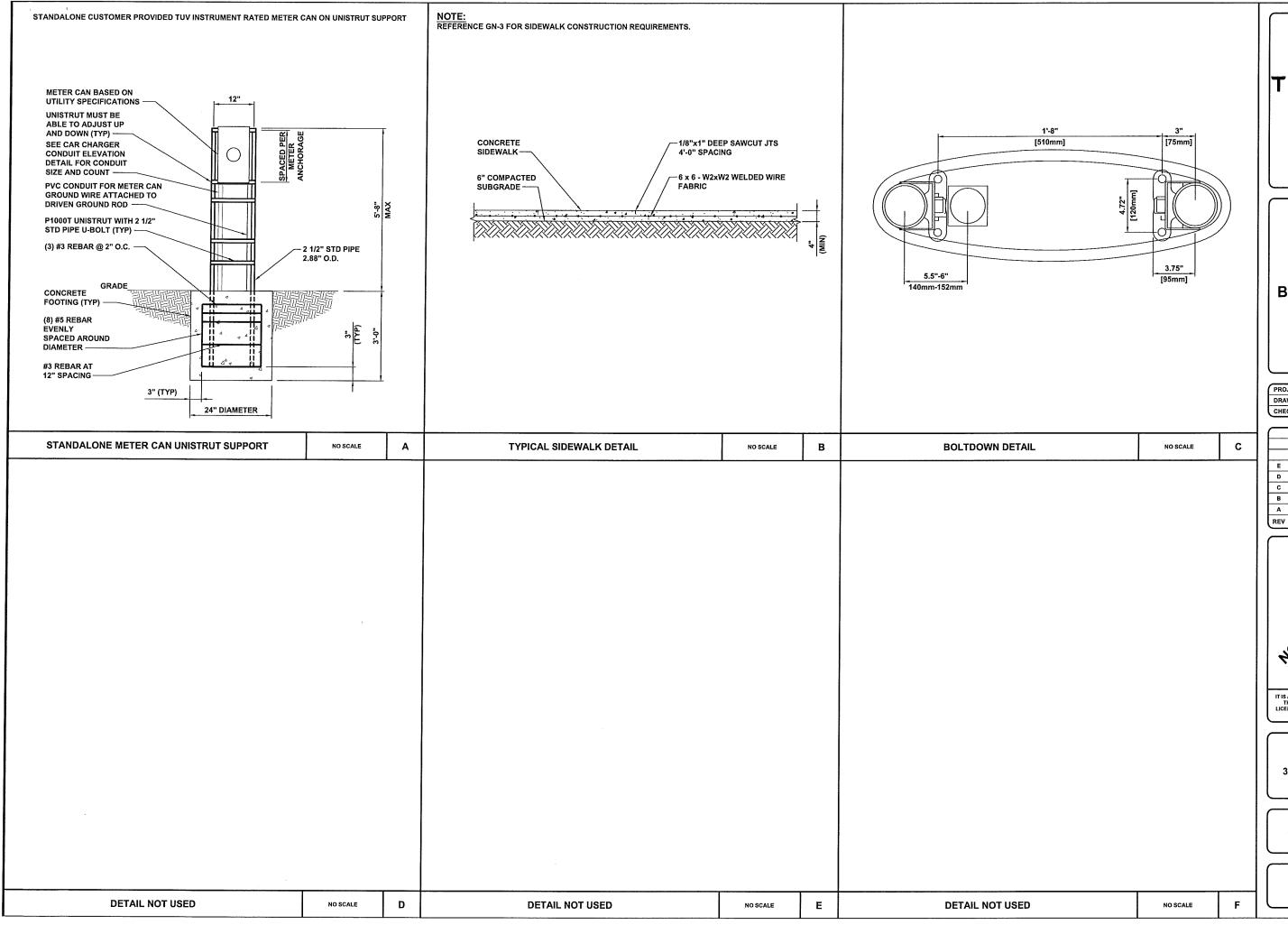
WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

GROUNDING DETAILS

SHEET NUMBER

G-2









PROJECT NO:	192745
DRAWN BY:	AKJ
CHECKED BY:	CNS

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	E	06/07/17	RE-ISSUED FOR 100% REVIEW
	D	06/02/17	RE-ISSUED FOR 100% REVIEW
	С	05/09/17	RE-ISSUED FOR 50% REVIEW
	В	09/24/17	RE-ISSUED FOR 50% REVIEW
	Α	12/07/16	ISSUED FOR 50% REVIEW
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NOT TO BE USED TON

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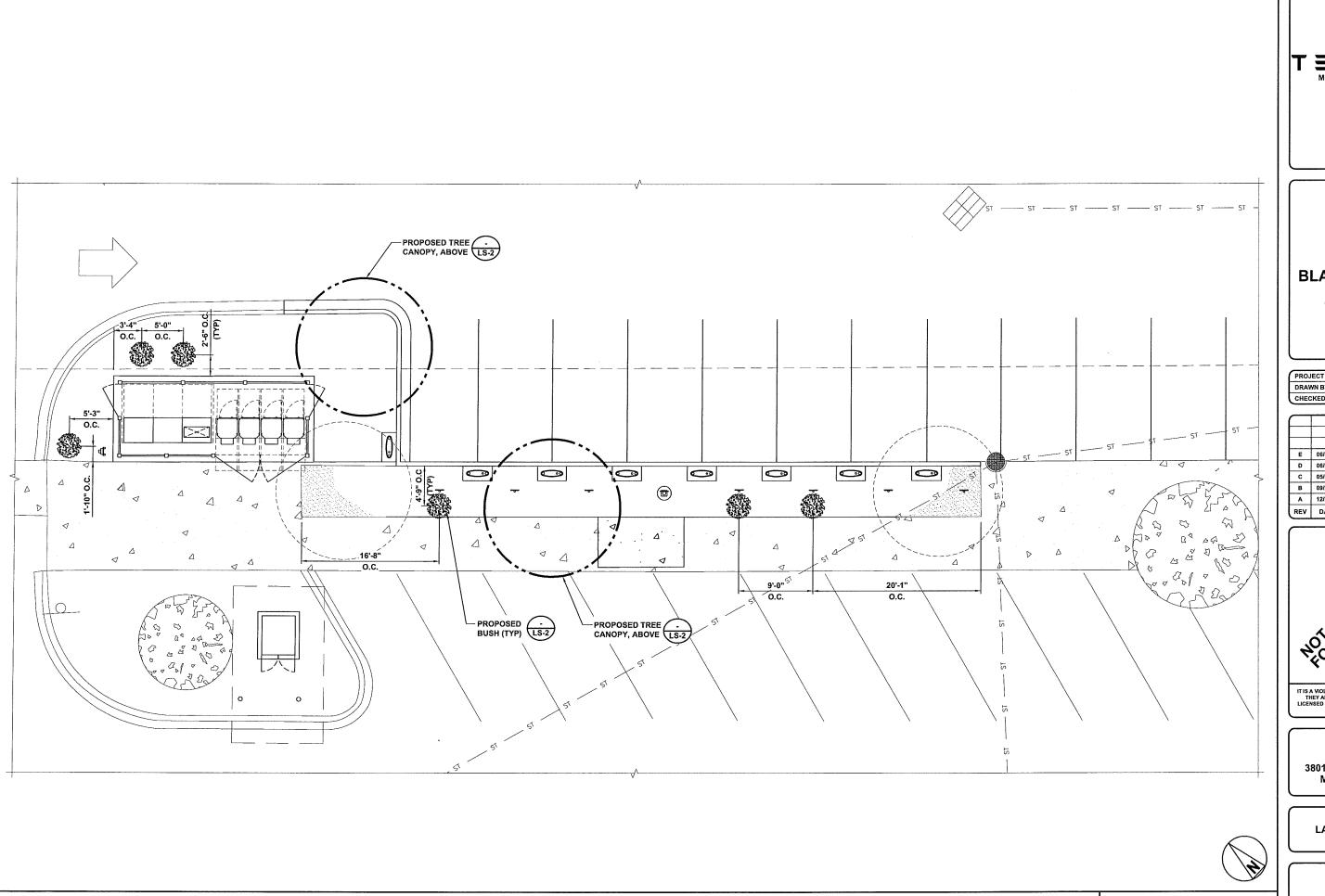
WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

S-2







6800 W 115th St, Suite 2292 OVERLAND PARK, KS 66211 (913) 458-2000

PROJECT NO:	192745
DRAWN BY:	AKJ
CHECKED BY:	CNS

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E	06/07/17	RE-ISSUED FOR 100% REVIEW
D	06/02/17	RE-ISSUED FOR 100% REVIEW
С	05/09/17	RE-ISSUED FOR 50% REVIEW
В	09/24/17	RE-ISSUED FOR 50% REVIEW
Α	12/07/16	ISSUED FOR 50% REVIEW
REV	DATE	DESCRIPTION



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WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SHEET TITLE

LANDSCAPING PLAN

SHEET NUMBER

LS-1

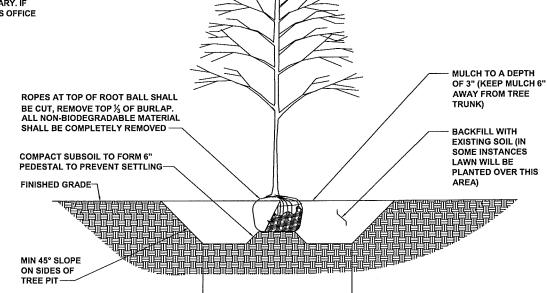
LANDSCAPING PLAN

NO SCALE

NOTES THOROUGHLY MIX IN SOIL AMENDMENTS TO DEPTH OF 8" THROUGHOUT GROUNDCOVER AREA OF BEDS. HAND TAMP TO BACK TO REMOVE AIR POCKETS. WATER IMMEDIATELY FOLLOWING PLANTING UNTIL NO MORE WATER IS ABSORBED. 4. SPACE AS SHOWN ON PLAN. MULCH TO A DEPTH OF 3" MINIMUM 45° SLOPE ON SIDES OF PLANTING PIT -

GENERAL TREE PLANTING NOTES

- 1. SITUATE ROOT BALL SO THAT TOP OF ROOT BALL
- IS 2" ABOVE FINISHED GRADE.
- 2. SCARIFY SIDES AND BOTTOM OF TREE PIT.
- 3. BACKFILL TREE PIT WITH EXISTING SOIL AND WATER UNTIL NO MORE WATER IS ABSORBED.
- 4. DO NOT ALLOW AIR POCKETS TO FORM WHILE BACKFILLING.
- INSTALL A MIN. 4'-0" DIAMETER MULCH RING AT A
- MIN. DEPTH OF 3" FOR TREES IN LAWN AREA.
- TREES NEED TO BE STAKED ONLY WHEN EXTREME WIND MAKES SUCH SUPPORT NECESSARY. IF STAKING IS NECESSARY CONTACT THIS OFFICE AND A DETAIL WILL BE PROVIDED.



ROOT BALL DIAMETER

TYPICAL GROUNDCOVER PLANTING NO SCALE

Α

PERENNIAL (TYP)

FINISHED GRADE

GENERAL TREE PLANTING DETAIL

NO SCALE

В

06/07/17 RE-ISSUED FOR 100% REVIEW D 06/02/17 RE-ISSUED FOR 100% REVIEW C 05/09/17 RE-ISSUED FOR 50% REVIEW 09/24/17 RE-ISSUED FOR 50% REVIEW

PROJECT NO:

DRAWN BY:

CHECKED BY:

3500 DEER CREEK RD

PALO ALTO, CA 94304 (650) 681-5000

BLACK & VEATCH

6800 W 115th St, Suite 2292 OVERLAND PARK, KS 66211 (913) 458-2000

192745

CNS

A 12/07/16 ISSUED FOR 50% REVIEW REV DATE DESCRIPTION

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WI009_MADISON MADISON 3801 E WASHINGTON AVE MADISON, WI 53704

SHEET TITLE

LANDSCAPING PLAN

SHEET NUMBER

LS-2

NOTE

1. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, AND MORE FREQUENTLY DURING TIMES OF EXTREME HEAT, FOR THE DURATION OF THE FIRST

PLANT SCHEDULE						
CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE (AT CONSTRUCTION)	SPACING	SPECIFICATIONS (AT FULL SIZE)
TREES	TO MATCH TREES BEING REMOVED		2		AS SHOWN	
BUSHES	PANICUM VIRGATUM	SHENANDOAH SWITCH GRASS	6		AS SHOWN	4 FT TALL, 2-3 FT WIDE
GROUND COVER						
OTHER						

DETAIL NOT USED

NO SCALE

С

PLANT NOTES AND SCHEDULE

D

NO SCALE

PROPERTY DESCRIPTION:

Order No. RC1733800, APN: 081033209091

Lots One (1) and Two (2) of Certified Survey Map No. 8221, recorded in the Office of the Register of Deeds for Dane County, Wisconsin, in Volume 44 of Certified Survey Maps, pages 156-161, as Document No. 2765198, located in the City of Madison, Dane

Together with an Easement for Access as established in Cross easement and agreement contained in instrument recorded on September 27,1968, in Volume 58 of Records, Page 144, as Document No. 1224537, as modified by an instrument recorded on June 19, 1995, in Volume 30095 of Records, Page 1, as Document No. 2682865.

Together with an Easement as established in Warranty Deed recorded September 27, 1968, in Volume 58 of Records, Page 141, as Document No. 1224536. Together with and ingress/egress easement as set forth on Certified Survey Map No. 8221 benefiting Lot One.

Order No. RC1730523, APN: 081033209231

Outlot 92A, Burke Assessor's Plat No.1, In the City of Madison, Dane County, Wisconsin, EXCEPT that part conveyed to Dane County In Vol. 589 of Deeds, page 341, as #847156. Also EXCEPTING that part contained In instrument recorded in Vol. 188 of Records, page

Parcel B:
The Northeasterly 1/2 of the following described parcel, being part of the Northwest 1/4 of Section 33, Town 8 North, Range 10 East, in the City of Madison, Dane County, Wisconsin, to—wit: Beginning at a point which Is 33 feet Southeast, measured along the extension of the Northeast line of Outlot 113 of Burke Assessor's Plat No.1 (formerly Sunnyside Plat) and Northeasterly along the former centerline of Sun Prairie Road 231 feet from the Easterly comer of Outlot 113 of Burke Assessor's Plat No.1 (formerly Southeast comer of Lot 13, Block 2, Plat of Sunnyside); thence Southeast at right angles to said Sun Prairie Road 214.5 feet; thence Northwesterly parallel with the centerline of said Sun Prairie Road 203 feet; thence Northwesterly 214.5 feet to the centerline of said Sun Prairie Road; thence Southwesterly along said centerline 203 feet to the point of beginning.

EXCEPT that part conveyed to Dane County for highway purposes as set forth in Warranty Deed recorded in Vol. 598 of Deeds, page

Also EXCEPTING that part contained in instrument recorded In Vol. 188 of Records, page 413, as #1268862.

Also Described as Follows:
Part of the Northwest 1/4 of Section 33, Town 8 North, Range 10 East, in the Town of Burke (now in the City of Madison), Dane County, Wisconsin, more fully described as follows: Beginning at the Southeast corner of Outlot 92A, Assessor's Plat No.1 a recorded plat in Section 33, Town 8 North, Range 10 East, in the Town of Burke (now in the City of Madison), Dane County, Wisconsin; thence Northeasterly parallel to the Sun Prairie Road 101.5 feet; thence Northwesterly parallel to the Northeast line of said Outlot 92A to the centerline of said road; thence Southwesterly along said centerline to the Northerly corner of said Outlot 92A; thence Southeasterly along the Northeasterly line of said Outlot 92A to the point of beginning.

Section 33, Township 8 North, Range 10 East, part of the North 1/2 of the Northwest 1/4, Commencing at the Southeast corner of Outlot 92A of Burke Assessor's Plot #1, Sun Prairie Road 101.5 feet, Northwest parallel to the Northeast line of said Outlot 92A to the centerline of said road Southwest along said centerline of the Northerly corner of said Outlot 92A Southeast to the point of beginning.

SCHEDULE B2 EXCEPTIONS:

Order No. RC1733800 (A) Item No.

- Easements and matters March 21, 1960 Book 347 (of Miscellaneous), Page 192 AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Right of Way Grant November 01, 1963 Book 400, Page 83 AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Easements and matters July 13, 1960 350, Page 566 -AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Sanitary Sewer Easement and matters November 15, 1968 Book 69, Page 260 —AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Access Restrictions, Easements, Notes and other matters as set forth on that certain filed map Certified Survey No. 8221 referenced in the vesting deed herein
 -AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- 6. Easement March 21, 1960 998745 -AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Terms conditions and provisions of the following appurtenant easements and agreements thereto: Recorded September 27, 1968 in Book 58, Page 144; as modified by agreement recorded June 19, 1995 in Book 30095, Page 1

 -AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Stormwater Drainage Agreement October 06, 2015 5189208
 —AFFECTS SURVEY AREA, BUT CANNOT BE PLOTTED, THERE WAS NO MATHEMATICAL DESCRIPTION PROVIDED.

Order No. RC1730523 (B) Item No.

- Easement and Right of Way for Sanitary Sewer March 21, 1960 998713 —AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Easement and Right of Way for Sanitary Sewer March 21, 1960 998714
 – AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- 3. Easement and Right of Way for Sanitary Sewer July 12, 1960 1005923 –AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Easements and other matters set forth on the filed map Recorded in Volume 94 of Certified Surveys, Page 66-69 5175142
 -AFFECTS SURVEY AREA AND IS SHOWN HEREON.
- Consent to Occupy Easement August 31, 2015 5180701 –AFFECTS SUBJECT PARCEL, BUT THERE IS NOTHING TO PLOT.

- Stormwater Drainage Agreement October 06, 2015 5189208
 -AFFECTS SURVEY AREA, BUT CANNOT BE PLOTTED, THERE WAS NO MATHEMATICAL DESCRIPTION PROVIDED.

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

LEGEND SANITARY MANHOLE STORM MANHOLE STORM INLET (RECTANGULAR STORM INLET (ROLIND) WATER VALVE LIGHT POLE

ά GUY WIRE \boxtimes FLECTRIC TRANSFORMER TELEPHONE PEDESTAL

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(1)

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H

- FO FIREROPTIC PEDESTAL 63 LS LANDSCAPED AREA WOOD POST

- —— OE —— ELECTRIC LINE (OVERHEAD) - TELEPHONE LINE (UNDERGROUND)
- FO CABLE TV LINE (UNDERGROUND) CONCRETE AREA

VICINITY MAP SITE

SYCAMORE AV

3. FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map, Map Number 55025C0427H effective date September 17, 2014, dicates this parcel of land is located in Zone X (Areas determined to be outside the 0.2% annual chance floodplain).

4. 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 Title Search, prepared by Pacific Corporate & Title Services, order numbers RC1733800 & RC1730523, dated November 21, 2016 & November 22, 2016,

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.

2. 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

- SITE BENCHMARK #1: West Bolt on Flange of Fire Hydrant, as shown. Elevation: 875.30' (NAVD 88).
 SITE BENCHMARK #2: Mag Nail in Asphalt, as shown. Elevation: 877.30' (NAVD 88).
- 6. BASIS OF BEARINGS: Bearings are relative to those shown upon the Certified Survey Map No. 8221, recorded in the Office of the Register of Deeds for Dane County, Visconsin, in Volume 44 of Certified Survey Maps, pages 156—161, as Document No. 2765198 in the Records of Dane County, Wisconsin, if rotated 0'22'46" counter-clockwise.

SITE 1

7. Field work for this survey was completed on November 22, 2016.

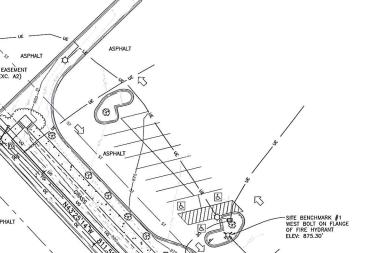
accurately as possible from the information available.

8. This site is zoned "CC-T" (Commercial Corridor) per City of Madison Planning Department.

Building Setbacks: Front: 25' Side: None. Rear: 20'

5

NOTES:



LOT 2 CERTIFIED SURVEY MAP NO. 8221

OWNER: HY-VEE, INC. AN IOWA CORPORATION

APN NO. 081033209091

GRAPHIC SCALE

(IN FEET) 1 inch = 30 ft.

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33, 4TH (SIN SURVEY

4 OF SECTION
EAST OF THI

SITE NAME: WI009 Madison

THE NW1/4 RANGE 10 E ON, DANE COL TOPOGRAPHIC S
RTION OF THE NW1/4
8 NORTH, RANGE 10 E
OF MADISON, DANE COI

OWNER: MAXWELL, MOREN APN NO. 081033209083

-20' SETRACK

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

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

Jay W. Panetti Wisconsin Professional Land Surveyor No. 2747 For and on behalf of Clark Land Surveying, Inc

