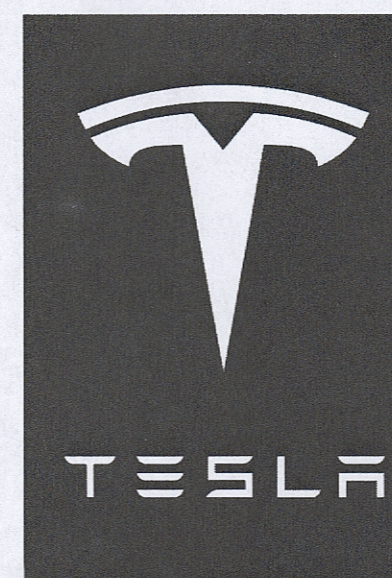


NOTE:
THE SUBJECT PARCEL FALLS WITHIN THE TRAVEL TIME CONTOUR OF A PROTECTED (POTABLE) WELLHEAD. CONTRACTORS SHALL BE RESPONSIBLE FOR REPORTING SPILLS OF POTENTIALLY HAZARDOUS SUBSTANCES (I.E. GASOLINE, DIESEL FUEL, HYDRAULIC FLUID, CLEANING PRODUCTS, CHEMICALS, ETC.) TO THE APPROPRIATE STATE (FDEP STATE WARNING POINT 1-800-320-0519) AND LOCAL (ECUA-EMERALD COAST UTILITIES AUTHORITY (850) 476-5110 AND ESCAMBIA COUNTY HEALTH DEPARTMENT/ENVIRONMENTAL HEALTH 595-6712) AGENCIES.

TESLA

CHARGING STATION
7171 N. DAVIS HWY, UNIT 650 (TESLA STATION)
PENSACOLA, FL 32504
TRT 17696



Approved
ESCAMBIA COUNTY DRC PLAN REVIEW

DRC Chairman Signature: J. Hampton Date: 4-26-23
Printed Name: Jennifer Hampton
Development Services Director or Designee

This document has been reviewed in accordance with the requirements of applicable Escambia County Regulations and Ordinances, and does not in any way relieve the submitting Architect, Engineer, Surveyor or other signatory from responsibility of details as drawn. A Development Order (DO) must be obtained through the Development Review Process prior to the commencement of construction. This DO approval does not constitute approval by any other agency. All additional state/federal permits shall be provided to the county prior to approval of a final plat or the issuance of state/federal permits shall be provided to the county prior to approval of a final plat or the issuance of a building permit.



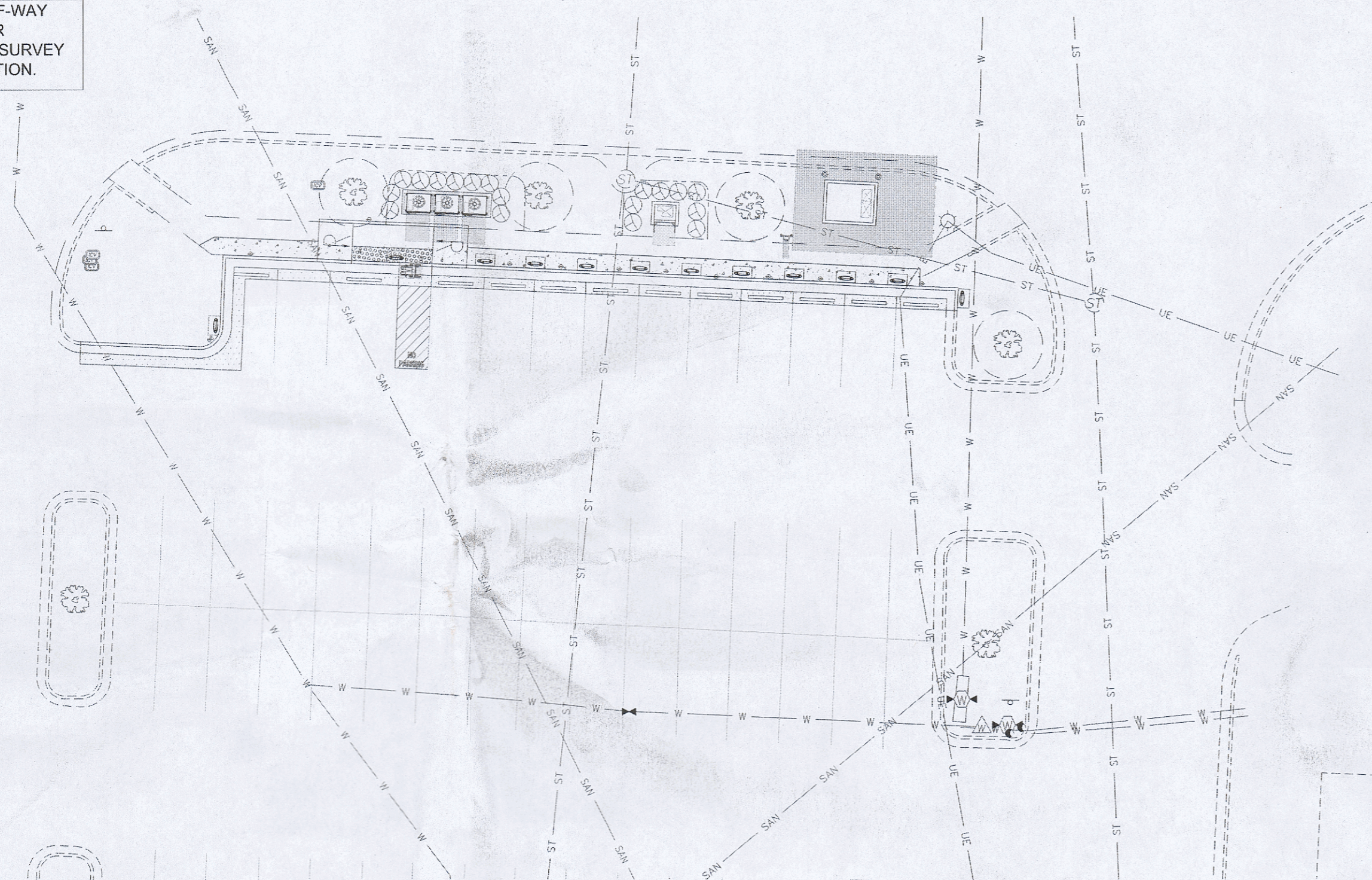
520 South Main Street, Suite 2531
Alicia, OH 44311
330.572.2100 Fax 330.572.2101



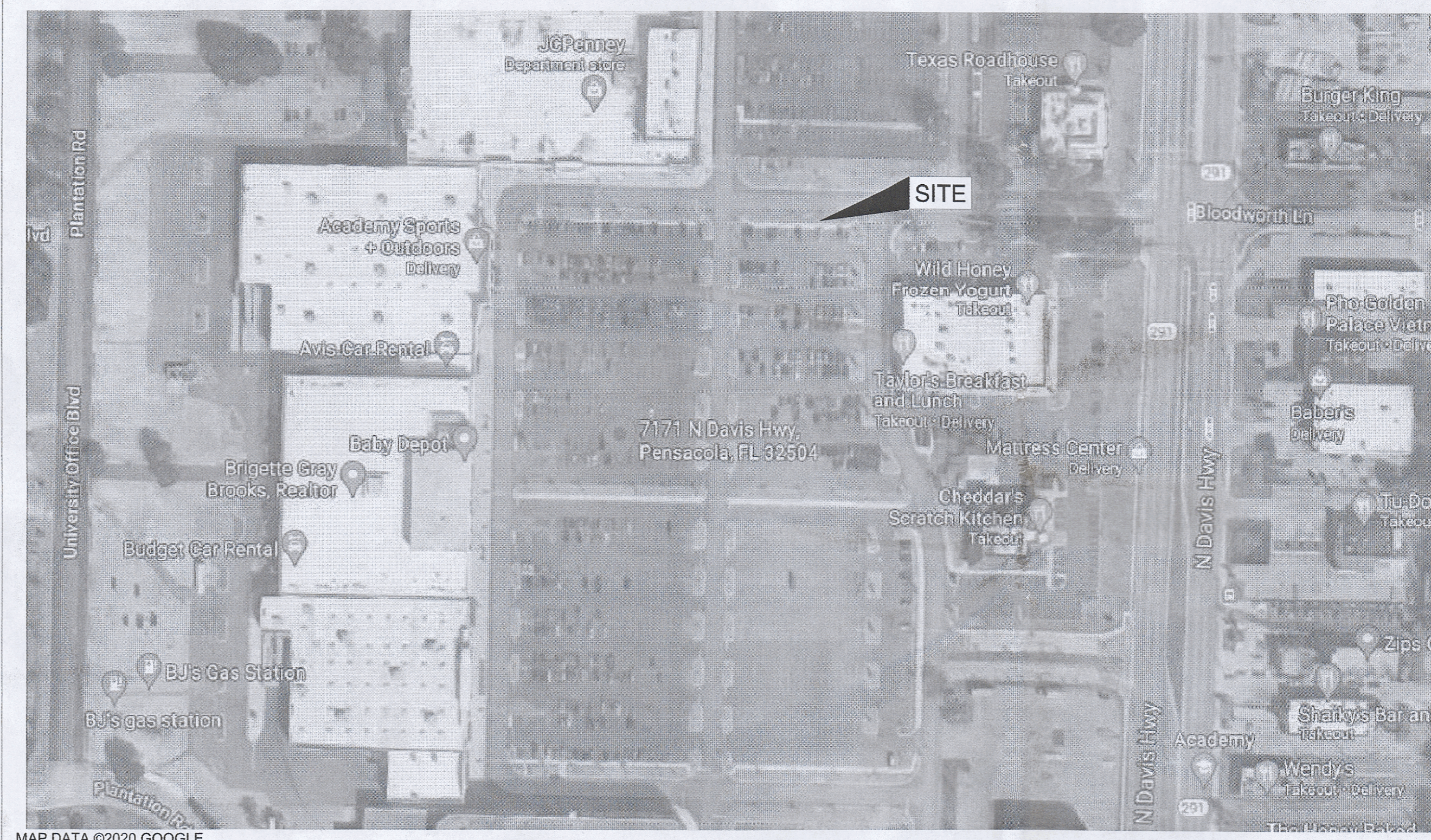
3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 591-5000

SITE LAYOUT

NOTE:
PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.



AERIAL MAP



SITE INFORMATION	
ADDRESS: 7171 N. DAVIS HWY, UNIT 650 (TESLA STATION) PENSACOLA, FL 32504	LATITUDE (NAVD88) N 30.49°29.98'58.82" 30.499673°
POWER COMPANY: GULF POWER CONTACT: HANNAH NANO (850) 429-2810	LONGITUDE (NAVD88) W 87.22°13.40'24.22" -87.223395°
PROPERTY OWNER: UNIVERSITY TOWN PLAZA LLC CONTACT: SARAH UREN (951) 505-7323	PERMITTING JURISDICTION: ESCAMBIA COUNTY DEVELOPMENT SERVICES DEPARTMENT (850) 595-3475
EQUIPMENT SUPPLIER: TESLA, INC. 3500 DEER CREEK ROAD PALO ALTO, CA 94304 (650) 681-5000	COUNTY: ESCAMBIA
GPD GROUP INC. - LLC.# - 30920 CONTACTS:	
PROJECT MANAGER: ZACHERY SHEETS, PE - OH# 77870 (330)572-2148 ZSHEETS@GPDGROUP.COM	UTILITY COORDINATOR JADEN BEACHY (330) 572-3643 JBEACHY@GPDGROUP.COM
PROJECT COORDINATOR: TROY EVESLAGE, PE - IN# PE11500164 (317) 295-3179 TEVESLAGE@GPDGROUP.COM	
PERMIT COORDINATOR: TABITHA ANDERSON (330) 572-3536 TANDERSON@GPDGROUP.COM	

APPLICABLE CODES	PROJECT DESCRIPTION
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: 2020 FLORIDA BUILDING CODE, 7TH EDITION 2018 INTERNATIONAL BUILDING CODE WITH AMENDMENTS 2017 NATIONAL ELECTRICAL CODE IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.	<ul style="list-style-type: none"> INSTALL (3) V3 SUPERCHARGER CABINETS INSTALL (12) V3 CHARGING POSTS INSTALL (1) SWITCHGEAR ASSEMBLY W/ INTEGRATED MASTER CONTROLLER INSTALL (1) UTILITY TRANSFORMER INSTALL (1) UTILITY METER ON H-FRAME
	BEFORE SCALING & PLAN REPRODUCTION WARNING CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND FIELD CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE TESLA IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DESIGN LOADING
LATERAL LOAD DESIGN DATA: WIND DESIGN DATA (ASCE 7-16):
BASIC WIND SPEED (V _{ult}): 161 MPH
RISK CATEGORY II
EXPOSURE CATEGORY C
SEISMIC DESIGN DATA (ASCE 7-16):
1.0 SEISMIC IMPORTANCE FACTOR (I) 1.0
RISK CATEGORY II
SITE CLASS (ASSUMED) D
MAPPED SPECTRAL RESPONSE
SHORT PERIODS (S _s) 0.081
1 SEC. PERIODS (S ₁) 0.055
SPECTRAL RESPONSE COEFF.
SHORT PERIODS (S _{0.5}) 0.087
1 SEC. PERIODS (S ₁) 0.089
SEISMIC DESIGN CATEGORY B
FROST DEPTH = 0"

DRAWING INDEX	
T-1	TITLE SHEET & PROJECT DATA
-	TESLA DATA SHEET
CIVIL SHEET TITLE	
GN-1	GENERAL NOTES
-	TOPOGRAPHIC SURVEY
-	TOPOGRAPHIC SURVEY
C-1	DEMOLITION PLAN
C-2	SITE PLAN
C-3	CIVIL DETAILS
C-4	CIVIL DETAILS
NA-5	CIVIL DETAILS
ELECTRICAL SHEET TITLE	
EN-1	NOT INCLUDED FOR SITE PLAN VIEW
E-1	ELECTRICAL EQUIPMENT PLAN
E-2	NOT INCLUDED FOR SITE PLAN VIEW
E-3	NOT INCLUDED FOR SITE PLAN VIEW
REFERENCED DOCUMENTS	
SUPERCHARGER DATASHEET	
SUPERCHARGER INSTALLATION MANUAL	
SUPERCHARGER POST INSTALLATION MANUAL	
TOPOGRAPHIC SURVEY	
UTILITY DESIGN DOCUMENTS	
ELECTRICAL EQUIPMENT CUTSHEETS	
"This file was signed electronically by <u>J. Sterra</u> on the date and/or time stamp shown using a digital signature. Printed copies of this are not considered signed and sealed and the signature must be verified on any electronic copy."	

REV. DATE	DESCRIPTION
A 07.14.21	ISSUED FOR 90% REVIEW
B 01.28.22	ISSUED FOR 90% REVIEW
C 02.10.22	ISSUED FOR 90% REVIEW
D 03.08.22	ISSUED FOR 90% REVIEW
E 08.11.22	ISSUED FOR 90% REVIEW
F 08.17.22	SIGNED AND SEALED
1 10.10.22	REVISED PER COMMENTS
2 12.16.22	REVISED PER COMMENTS
3 02.02.23	REVISED PER COMMENTS

LEONARDO A. SFERRA
LICENSE No. 80859
Professional Engineer
FLORIDA
02/16/23

7171 N. DAVIS HWY,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504

TITLE SHEET &
PROJECT DATA

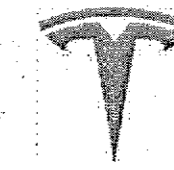
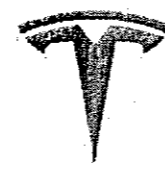
ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

T-1

Drawing Name: C:\2020\2020141.81 - TRT 17696 - Pensacola, FL - CD100.dwg
February 16, 2023 12:57 PM - MMrakovich



V3 SUPERCHARGER DATASHEET

V3 Supercharger Cabinet

AC INPUT (Electrical)	Input (V _{AC})	480	440	415	400	380
	Peak AC Input Power	387	354	334	322	306
	Power (kVA)					
	AC Input Voltage	380 V _{AC} - 480 V _{AC} (-5%, +10%), 4-wire 3AC+N				
	AC Input current	465 A _{AC} Max.				
	Frequency	50 Hz / 60 Hz				
	Power Factor	≥ 0.99				
AC INPUT (Mechanical)	Conductor Sizes	L1, L2, L3, N: 150 - 400 mm ² , 250 MCM - 750 MCM				
	PE Conductor	PE: 10 - 70 mm ² , #8 AWG - 2/0				
	Conductor Material Type	L1, L2, L3, N: Cu, Al PE: Cu				
	Conductor Voltage Rating	1000 V				
	Mfr. Termination Temp Rating	90° C				
	DC Bus Voltage Range	880 - 1000 V _{DC}				
	DC Bus Voltage Range	880 - 1000 V _{DC}				
SHARED DC BUS (ELECTRICAL)	Input (V _{AC})	480	440	415	400	380
	Power (kW)	575	575	575	575	575
	Max Rated DC Bus Power	575 kW				
	Max Rated DC Bus Current	640 A _{DC}				
	Current (A _{DC})	640	640	640	640	640
	DC Bus Voltage Range	880 - 1000 V _{DC}				
	DC Bus Voltage Range	880 - 1000 V _{DC}				
SHARED DC BUS (MECHANICAL)	Conductor Sizes	V+, V- (2x/pole): 150 - 300 mm ² , 250 MCM - 600 MCM				
	Mid	Mid: 16 - 150 mm ² , 6 AWG - 250 MCM				
	PE	PE: 10 - 70 mm ² , #8 AWG - 2/0				
	Conductor Material Type	V+, V-, Mid: Cu, Al PE: Cu				
	Conductor Voltage Rating	1000 V				
	Mfr. Termination Temp Rating	90° C				
	Mfr. Termination Temp Rating	90° C				
DC POST (ELECTRICAL)	Max. Rated Post Power	250 kW				
	Post Rated Voltage Range	0-500 V _{DC}				
	Post Rated Current @T _a =35° C	Tesla Handle: 350 A _{DC} , CCS2 & GB Handle: 450 A _{DC}				
	Number of Charge Posts	1 - 4				
	Max Voltage Drop	10 V _{DC}				
	Conductor Size	V+, V- (2x/pole): 350 MCM or 185 mm ² AL (certified equipment wiring)				
	PE	PE: 10 - 70 mm ² , #8 AWG - 2/0				
DC POST (MECHANICAL)	Conductor Material Type	V+, V-, Al, Cu PE: Cu				
	Conductor Voltage Rating	1000 V				
	Mfr. Termination Temp Rating	90° C				
	Mfr. Termination Temp Rating	90° C				
	Efficiency	96%				
	AC Input side: Class 1	DC Output side: Isolated DC Output				
	Over Voltage/Current/Temperature, Surge Protection, Isolation Monitoring					
PROTECTION	Short-Circuit Protection	External Electronic Trip Circuit Breaker				
	Short Circuit Current Rating	85 kA RMS symmetrical				
	Operating Temperature	-30°C to 50°C, -22°F to 122°F				
	Ingress Protection	IP66 (Cabinet), IP2X (Cooling)				
	Ventilation Requirements	Ventilation Not Required				
	Typical noise at 1m	35 dB(A)				
	Typical noise at 1m	35 dB(A)				
ENVIRONMENTAL	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B, IEC 61851-1, EN 61000-6-2 EN 55011, GB/T 18487.1, GB/T 27930, NB/T 33008.1, NB/T 33001					
	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B, IEC 61851-1, EN 61000-6-2 EN 55011, GB/T 18487.1, GB/T 27930, NB/T 33008.1, NB/T 33001					
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	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B, IEC 61851-1, EN 61000-6-2 EN 55011, GB/T 18487.1, GB/T 27930, NB/T 33008.1, NB/T 33001					
NOISE	Max. Distance to Charge Post	100 m, 340 ft.				
	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)				
	3 Post Cabinet: 1039kg (2291 lbs)					
	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.				
	Per-anchor min. Shear Strength	4 kN				
	Per-anchor min. Tension Strength	11 kN				
	Per-anchor min. Tension Strength	11 kN				
STANDARDS	Max. Distance to Charge Post	100 m, 340 ft.				
	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)				
	3 Post Cabinet: 1039kg (2291 lbs)					
	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.				
	Per-anchor min. Shear Strength	4 kN				
	Per-anchor min. Tension Strength	11 kN				
	Per-anchor min. Tension Strength	11 kN				
LAYOUT	Max. Distance to Charge Post	100 m, 340 ft.				
	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)				
	3 Post Cabinet: 1039kg (2291 lbs)					
	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.				
	Per-anchor min. Shear Strength	4 kN				
	Per-anchor min. Tension Strength	11 kN				
	Per-anchor min. Tension Strength	11 kN				
WEIGHT	Max. Distance to Charge Post	100 m, 340 ft.				
	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)				
	3 Post Cabinet: 1039kg (2291 lbs)					
	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.				
	Per-anchor min. Shear Strength	4 kN				
	Per-anchor min. Tension Strength	11 kN				
	Per-anchor min. Tension Strength	11 kN				
DIMENSIONS	Max. Distance to Charge Post	100 m, 340 ft.				
	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)				
	3 Post Cabinet: 1039kg (2291 lbs)					
	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.				
	Per-anchor min. Shear Strength	4 kN				
	Per-anchor min. Tension Strength	11 kN				
	Per-anchor min. Tension Strength	11 kN				
MOUNTING	Max. Distance to Charge Post	100 m, 340 ft.				
	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)				
	3 Post Cabinet: 1039kg (2291 lbs)					
	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.				
	Per-anchor min. Shear Strength	4 kN				
	Per-anchor min. Tension Strength	11 kN				
	Per-anchor min. Tension Strength	11 kN				

V3 Supercharger Charge Post

POST INPUT/OUTPUT (ELECTRICAL)	Max. Rated Post Power	250 kW
	Post Rated Voltage Range	0 - 500 V _{DC}
	Post Rated Current @T _a =35° C	Tesla Handle: 350 A _{DC} , CCS2 & GB Handle: 450 A _{DC}
DC INPUT (MECHANICAL)	Power Conductors	V+, V- (2x/pole): 350 MCM or 185 mm ² AL (certified equipment wiring)
	PE Conductor	PE: 25 - 50 mm ² , 3 AWG - 2/0
	Conductor Material Type	V+, V- : Al, Cu PE: Al, Cu
	Conductor Voltage Rating	1000 V
Mfr. Termination Temp Rating	90° C	
PROTECTION	Over Current/Temperature, Uneven Current Split	
ENVIRONMENTAL	Operating Temperature	-40°C to 50°C, -40°F to 122°F
	Ingress Protection	IP44
STANDARDS	UL 2202, CSA 22.2#107.1-16, FCC, ICES-003, EN 61000-6-2, EN 61000-6-4, IEC 61851-1, IEC 61851-23, GB/T 18487.1, GB/T 27930, GB/T 20234.1, GB/T 20234.3, GB/T 34658	
LAYOUT	Max. Distance to Cabinet	100 m, 340 ft.
WEIGHT	Charge Post Weight	64 kg, 140 lbs.
DIMENSIONS	Depth, Width, Height	250, 810, 1687 mm; 9 27/32, 31 7/8, 66 13/32 in.
	Per-anchor min. Shear Strength	1 kN
MOUNTING	Per-anchor min. Shear Strength	1 kN
	Per-anchor min. Tension Strength	11 kN



3500 DEER CREEK RD
PAISLEY, CA 94948
(950) 891-6000

REV.	DATE	DESCRIPTION
A	07.14.21	ISSUED FOR 90% REVIEW
B	01.28.22	ISSUED FOR 90% REVIEW
C	02.10.22	ISSUED FOR 90% REVIEW
D	03.09.22	ISSUED FOR 90% REVIEW
E	08.11.22	ISSUED FOR 90% REVIEW
F	08.17.22	SIGNED AND SEALED
1	10.10.23	REVISED PER COMMENTS
2	12.16.23	REVISED PER COMMENTS
3	02.02.23	REVISED PER COMMENTS

FOR REFERENCE ONLY

7171 N. DAVIS HWY,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504
TESLA DATASHEET

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

GOVERNING BUILDING CODE

GOVERNING BUILDING CODE: 2020 FLORIDA BUILDING CODE, 7TH EDITION

GENERAL CONSTRUCTION NOTES

- 1. ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ANY OTHER REGULATING AUTHORITIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
2. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FROM TESLA OF ANY DISCREPANCIES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE SUBCONTRACTOR'S SOLE EXPENSE.
3. SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO TESLA FOR APPROVAL BEFORE MAKING ANY CHANGES. DEVIATION FROM PLANS BEFORE WRITTEN APPROVAL FROM TESLA PLACES LIABILITY ON THE SUBCONTRACTOR.
4. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, CONTRACTOR SHALL USE BEST CONSTRUCTION PRACTICES.
5. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.
6. ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.
7. APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.
8. NEW PAVEMENT INSTALLED AS PART OF THIS PROJECT SHALL MATCH EXISTING PAVEMENT SECTION. EXISTING PAVEMENT DEPTHS SHALL BE MAINTAINED.
9. THE TOPOGRAPHIC SURVEY BY CLARK LAND SURVEYING, INC, DATED 03/31/21 SHALL BE CONSIDERED PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING EXISTING CONDITION IMPROVEMENTS PER THESE PLANS.
10. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS. DUE TO THE LIMITATIONS IN TECHNOLOGY AND GROUND CONDITIONS, NOT ALL UNDERGROUND UTILITIES ARE ABLE TO BE LOCATED. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
11. ALL PROPERTY LINES, RIGHT OF WAYS, CENTERLINES, DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
12. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF TESLA PRIOR TO THE COMMENCEMENT OF WORK.
13. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND FEDERAL, STATE AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.
14. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
15. 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 TESLA 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 APPROVED BY TESLA PRIOR TO PROCEEDING WITH WORK.
16. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
17. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY TESLA PRIOR TO PROCEEDING.
18. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
19. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
20. 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.
21. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES.
22. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
23. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.

- 25. PRIOR TO DEMOLITION OR ANY CONSTRUCTION ACTIVITIES PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
26. 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.
27. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING FROM TESLA.
28. GRANULAR BACKFILL SHALL MEET THE FOLLOWING GRADATION PER THE TABLE BELOW:
SIEVE SIZE TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM) 100
1 INCH (25.0 MM) 75 TO 100
3/4 INCH (19.00 MM) 80 TO 100
3/8 INCH (9.5 MM) 35 TO 75
NO. 4 (4.75 MM) 30 TO 60
NO. 30 (0.600 MM) 7 TO 30
NO. 200 (0.75 MM) 3 TO 15
29. GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SW OR SW-SM).
30. 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.
31. 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.

GENERAL FOUNDATION NOTES

- 1. DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECTION OF FOUNDATION BEARING SURFACES, AND VERIFICATION OF ALLOWABLE BEARING PRESSURES ARE THE TESTING LABORATORY'S RESPONSIBILITY.
2. ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL COMPACT SUBGRADE. SEE FROST/NO FROST DESIGN NOTES THIS SHEET.
4. FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF UNLESS NOTED OTHERWISE.
5. NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.
6. STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.
7. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.
8. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
9. GROUNDWATER ASSUMED TO BE BELOW EXCAVATION DEPTH. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION ON SITE, CONTRACTOR SHALL PROVIDE FOR ANY SITE DRAINAGE AND DE-WATERING REQUIRED.
10. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES PRIOR TO EXCAVATION. IF NECESSARY, UTILITIES SHALL BE RELOCATED PRIOR TO FOUNDATION INSTALLATION.

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.
2. ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.
3. SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INsofar AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
4. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
5. ALL CONCRETE UNLESS NOTED OTHERWISE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS: ALL CONCRETE - 4500 PSI. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (± 1%) AIR ENTRAINMENT.
6. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

- 7. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.
8. NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.
9. PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.
10. PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.
11. REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4500 PSI CONCRETE
OTHER TOP*
BAR SIZE ANCHORAGE SPLICE ANCHORAGE SPLICE
3 15 19 19 24
4 19 25 25 33
5 24 31 31 41
6 29 37 37 49
* HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR

CHARGING CABINET PRE-FABRICATED ASSEMBLY FOUNDATION & ALL CHARGING POST FOUNDATIONS - FROST DESIGN NOTES (BOTTOM OF FOUNDATION ABOVE FROST LEVEL):

- 1. CONCRETE FOUNDATIONS SHOULD BEAR DIRECTLY ON A PROPERLY COMPACTED FREE-DRAINING GRANULAR FILL CONSISTING OF NO. 57 STONE OR AN APPROVED EQUIVALENT.
2. GRANULAR FILL SHOULD EXTEND VERTICALLY TO THE MINIMUM RECOMMENDED REGIONAL FROST DEPTH AND LATERALLY 2/3D FROM THE FOUNDATION PERIMETER (EXCLUDING SIDE OF PERIMETER ADJACENT TO CURB). GRANULAR FILL SHOULD BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED WITH A VIBRATORY COMPACTOR. THE COMPACTION EQUIPMENT SHOULD BE OPERATED OVER THE FULL WIDTH OF THE FOUNDATION UNDERCUT AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES. SEE SHEET T-1 FOR LOCAL FROST DEPTH.
3. GEOTEXTILE (FILTER FABRIC) SHOULD BE PLACED BETWEEN THE GRANULAR BACKFILL AND COHESIVE SOILS TO PRECLUDE THE INFILTRATION OF FINES. SPEC AS FOLLOWS:
SEPARATION GEOTEXTILE: WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFINS OR POLYESTERS, WITH ELONGATION LESS THAN 50 PERCENT; COMPLYING WITH AASHTO M 288 AND THE FOLLOWING, MEASURED PER TEST METHODS REFERENCED:
SURVIVABILITY: CLASS 2; AASHTO M 288.
GRAB TENSILE STRENGTH: 247 LBF (1100 N); ASTM D 4632.
SEWN SEAM STRENGTH: 222 LBF (990 N); ASTM D 4632.
TEAR STRENGTH: 90 LBF (400 N); ASTM D 4533.
PUNCTURE STRENGTH: 90 LBF (400 N); ASTM D 4833.
APPARENT OPENING SIZE: NO. 60 (0.250-MM) SIEVE, MAXIMUM; ASTM D 4751.
PERMITTIVITY: 0.02 PER SECOND, MINIMUM; ASTM D 4491.
UV STABILITY: 50 PERCENT AFTER 500 HOURS' EXPOSURE; ASTM D 4355.

CHARGING CABINET PRE-FABRICATED ASSEMBLY FOUNDATION & ALL CHARGING POST FOUNDATIONS - NO FROST DESIGN NOTES (BOTTOM OF FOUNDATION BELOW FROST LEVEL)

- 1. CONCRETE FOUNDATIONS SHOULD BE SUPPORTED ON A 6 INCH COMPACTED LAYER OF APPROVED FREE-DRAINING GRANULAR MATERIAL.
2. APPROVED MATERIAL SHOULD BE COMPACTED OVER THE FULL WIDTH OF THE INFILL AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.

STRUCTURAL STEEL

MATERIAL PROPERTIES:

PLATE: ASTM A36 UNO
PIPE: ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI)
TUBE: ASTM A1085 GRADE A (Fy = 50 KSI)

- 1. DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2016 AISC (360-16) SPECIFICATIONS.
2. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS.
3. FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.
4. ALL EXPOSED STRUCTURAL STEEL, ANCHOR RODS AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
5. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 Gr 55 WITH HEAVY HEXAGONAL NUT.

- 6. 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.

TRAFFIC CONTROL NOTES

- 1. DURING THE CONSTRUCTION PERIOD; SIDEWALKS, SHOULDERS, TRAVEL LANE(S), OR STREETS MAY HAVE TO BE TEMPORARILY CLOSED OR RESTRICTED FOR THE UNLOADING / LOADING OF EQUIPMENT OR AS A RESULT OF CONSTRUCTION ACTIVITIES THEMSELVES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DIRECTLY WITH THE LOCAL GOVERNING AUTHORITIES ON ANY SUCH CLOSURES AND MUST OBTAIN WRITTEN PERMISSION FROM THE APPROPRIATE AUTHORITIES PRIOR TO IMPLEMENTING SUCH CLOSURES OR RESTRICTIONS. ANY CLOSURE OR RESTRICTION MUST COMPLY WITH THE STATE MANUAL OF UNIFORM CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION AND REVISION), AND WITH ANY AND ALL ADDITIONAL APPLICABLE CITY, VILLAGE, OR COUNTY REQUIREMENTS. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL TRAFFIC CONTROL / MOT PLAN TO THE LOCAL GOVERNING AUTHORITIES IF REQUESTED. ALL REQUIRED CONSTRUCTION TRAFFIC MAINTENANCE DEVICES SHALL BE PROVIDED, ERECTED AND MAINTAINED, AND ULTIMATELY REMOVED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES AND INTERSECTING STREET AT ALL TIMES DURING THE CONSTRUCTION OF THE IMPROVEMENTS ANTICIPATED. DRIVEWAYS MUST BE MAINTAINED AND ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORK DAY. PER THE STATE MUTCD AND OTHER APPLICABLE APPROPRIATE GOVERNING REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, CONES, SIGNAGE, BARRELS, MESSAGE BOARDS, LIGHTING, FLAGMEN, LAW ENFORCEMENT OFFICERS, ETC. TO AVOID DAMAGE AND / OR INJURY TO VEHICLES AND PERSONS TRAVERSING THE CONSTRUCTION AREA.

SPECIAL INSPECTIONS

- 1. TESLA SHALL BE RESPONSIBLE FOR SCHEDULING AND OVERSEEING OF ALL SPECIAL INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. SPECIAL INSPECTIONS MUST BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.

PAVEMENT MARKING NOTES

- 1. ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL.
2. MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:
3. PAVEMENT MARKINGS PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562 AND D711.
4. PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
5. APPLY 2 COATS WITHIN THE SAME DAY, UTILIZING STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.

EXISTING SLAB REINFORCEMENT INVESTIGATION/X-RAY

- 1. CONTRACTOR SHALL VERIFY POST TENSIONING AND REINFORCEMENT LOCATION IN EXISTING CONCRETE SLAB PRIOR TO DRILLING.

LANDSCAPE NOTES

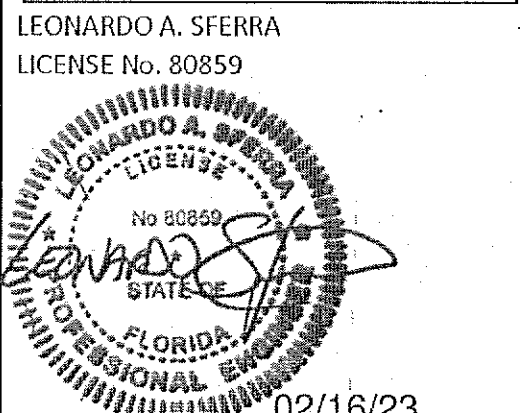
- 1. SOD SHALL BE SELECTED PER ZONE AND MATCHED TO EXISTING SITE. SOD SHALL BE A FIRST GRADE CERTIFIED BLEND CONTAINING NO MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS.
ZONES 3, 4 & 5: APPROVED BLUE GRASS BLEND
ZONE 6: APPROVED FESCUE BLEND
ZONES 7 & 8: APPROVED BERMUDA BLEND
ZONES 9 & 10: APPROVED ST AUGUSTINE FLORATAM BLEND
2. ALL DISTURBED AND PROPOSED LANDSCAPE PLANTING BED AREAS SHALL RECEIVE 3" OF SHREDDED BARK MULCH TO MATCH EXISTING CONDITIONS.
3. PLANT GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.
4. IRRIGATION RELOCATION: CONTRACTOR FIELD VERIFY IF EXISTING IRRIGATION IS PRESENT. DETERMINE POINT OF CONNECTION, SYSTEM PRESSURE, FIXTURE TYPES, AND POTENTIAL FOR EXPANSION. IF FOUND THAT THE EXISTING IRRIGATION SYSTEM IS CAPABLE OF EXPANSION AND REUSE THEN IT SHALL BE MODIFIED TO PROVIDE 100% COVERAGE OF THE LANDSCAPE AREA. IF THE EXISTING IRRIGATION SYSTEM IS NOT CAPABLE OF EXPANSION, CONTRACTOR TO INSTALL A NEW CONTROLLER, BOOSTER PUMP, AND OTHER APPARATUS NEEDED FOR A COMPLETE IRRIGATION SYSTEM. IRRIGATED AREAS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR FIXTURES BY THE SAME SUPPLIER. CONTRACTOR SHALL ENSURE BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL SPRINKLER FIXTURES, DRIP TUBING, PIPING, VALVES, WIRING AND CONTROLS TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM THAT SHALL COMPLY WITH CITY CODE. PRIOR TO UPDATING THE IRRIGATION SYSTEM, A CERTIFIED IRRIGATION DESIGNER SHALL PROVIDE SHOP DRAWINGS TO TESLA FOR APPROVAL. UPON APPROVAL OF SHOP DRAWINGS, THE UPDATED IRRIGATION SYSTEM SHALL BE APPROVED BY OWNER FOR FINAL ACCEPTANCE.

EXISTING LEGEND table with symbols and descriptions for property lines, catch basins, curbs, manholes, water lines, gas lines, storm lines, sanitary lines, electric lines, light poles, power poles, telephone poles, bollards, signs, flags, pumps, and mail boxes.

"This file was signed electronically by L. Sierra on the date and/or time stamp shown using a digital signature. Printed copies of this are not considered signed and sealed and the signature must be verified on any electronic copy."



REVISIONS table with columns for REV, DATE, DESCRIPTION, and REVIEWER. Includes entries for 07/14/21, 01/28/22, 02/10/23, 03/09/23, 08/11/23, 08/17/23, 10/10/23, 12/16/23, and 02/02/24.



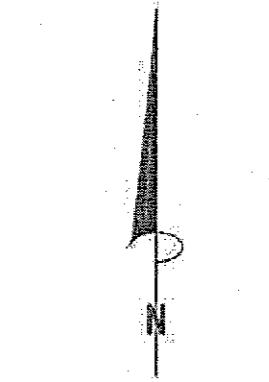
7171 N. DAVIS HWY, UNIT 650 (TESLA STATION) PENSACOLA, FL 32504

ISSUED FOR table with columns for PERMIT, BID, CONSTRUCTION, RECORD and values xxx.

INSTALL MANAGER and DESIGNER table with names DAVID HERNANDEZ and EH.

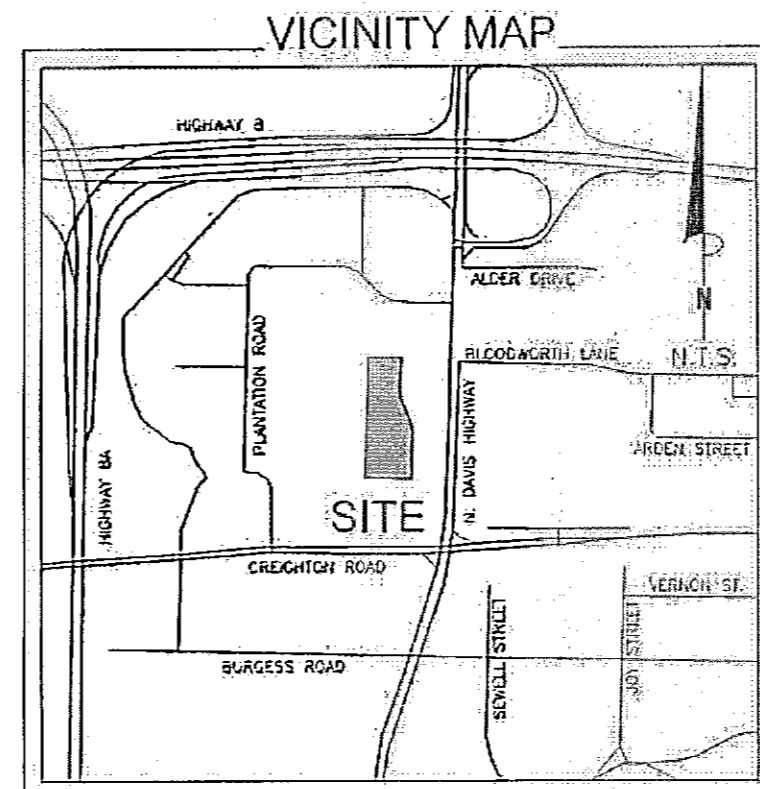
JOB NO. 2020141.81

GN-1



GRAPHIC SCALE

FOR REFERENCE ONLY
NOT TO SCALE



PROPERTY DESCRIPTION:

A portion of the land described in that Quitclaim Deed, recorded June 9, 2014 under Book 7179 Page 1555, in the Official Public Records of Escambia County, Florida. Record boundary description contained in said deed is erroneous, boundary placement is the best interpretation of the surveyor.

SCHEDULE B2 EXCEPTIONS:

- Item No.
 - Amended and Restated Operating Agreement between Simon Property Group, L.P., d/b/a Penney Properties, Inc. and Sears, Roebuck and Co. recorded 12/21/2012 in book 6951 page 1835. IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
 - Reciprocal Agreement of Covenants, Conditions and Restrictions between J.C. Penney Corporation, Inc. and SMBC Lighting and Finco, Inc. recorded 4/16/2014 in book 7159 page 514. IS LOCATED ON SURVEY AREA, BLANKET IN NATURE.
 - Easements as set forth in deed in book 3700 page 430 and in deed in book 7179 page 1555. MAY BE LOCATED ON SURVEY AREA, REFERENCE DOCUMENTS NOT PROVIDED IN TITLE REPORT.
- 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. This site was located by standard RP methods.
- FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMAette published March 31, 2021, referencing Flood Insurance Rate Map, Map Number 12033CO380C effective date September 29, 2006, 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 U.S. Title Solutions with an order number of 67419-FL2103-5034, dated 3/10/2021.
- Elevations are based on NAVD 88 datum.
- BENCHMARK: Iron Pin in Dirt, as shown. Elevation: 113.00' (NAVD 88).
- BASIS OF BEARINGS: Bearings are relative to MAGN. Florida State Plane Coordinate System, North Zone (0903).
- Field work for this survey was completed on March 16, 2021.
- 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 "HC/LI" (Heavy Commercial/Light Industrial) per County of Escambia Planning Department. Building Setbacks:
Front: 15', Side: 5', Rear: 15'
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 County of Escambia Planning and Zoning Department at (850)395-3475.

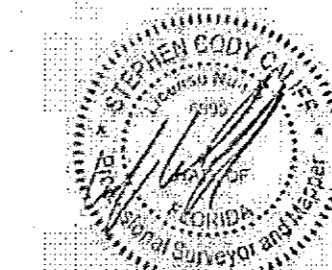
AREAS OF CONCERN:

No apparent areas of concern.

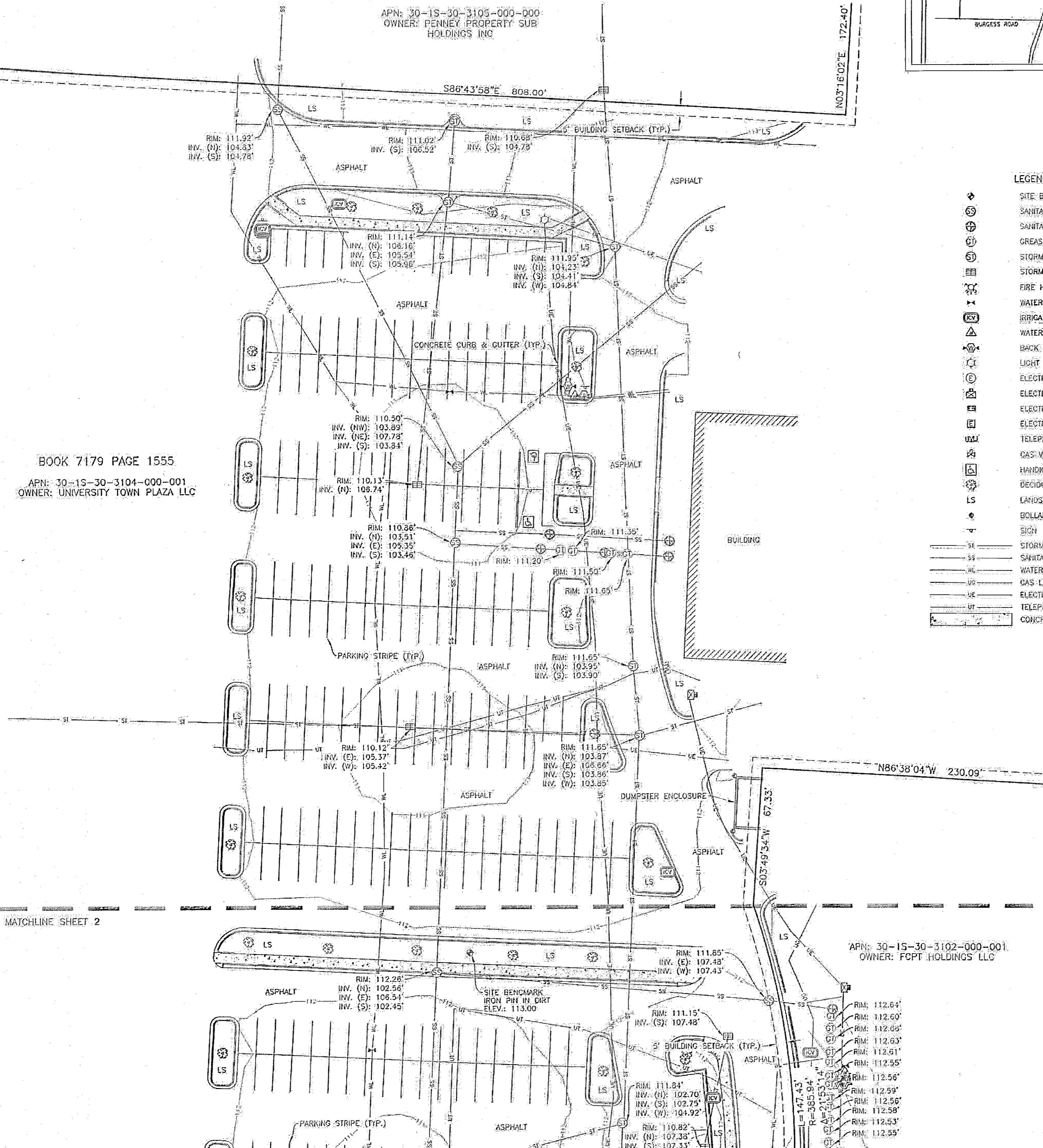
SURVEYOR'S STATEMENT:

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 Florida 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.



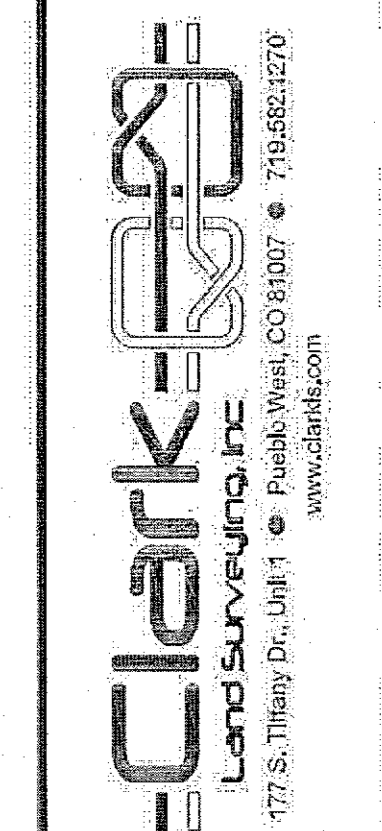
Stephen C. Coliff
Florida Professional Surveyor & Mapper No. 6995
For and on behalf of Clark Land Surveying, Inc.



BOOK 7179 PAGE 1555
APN: 30-15-30-3104-000-001
OWNER: UNIVERSITY TOWN PLAZA LLC

MATCHLINE SHEET 2

APN: 30-15-30-3102-000-001
OWNER: FOPT HOLDINGS LLC



No.	Description	By	Date

SITE NAME:
University Town Plaza

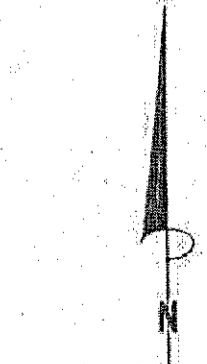
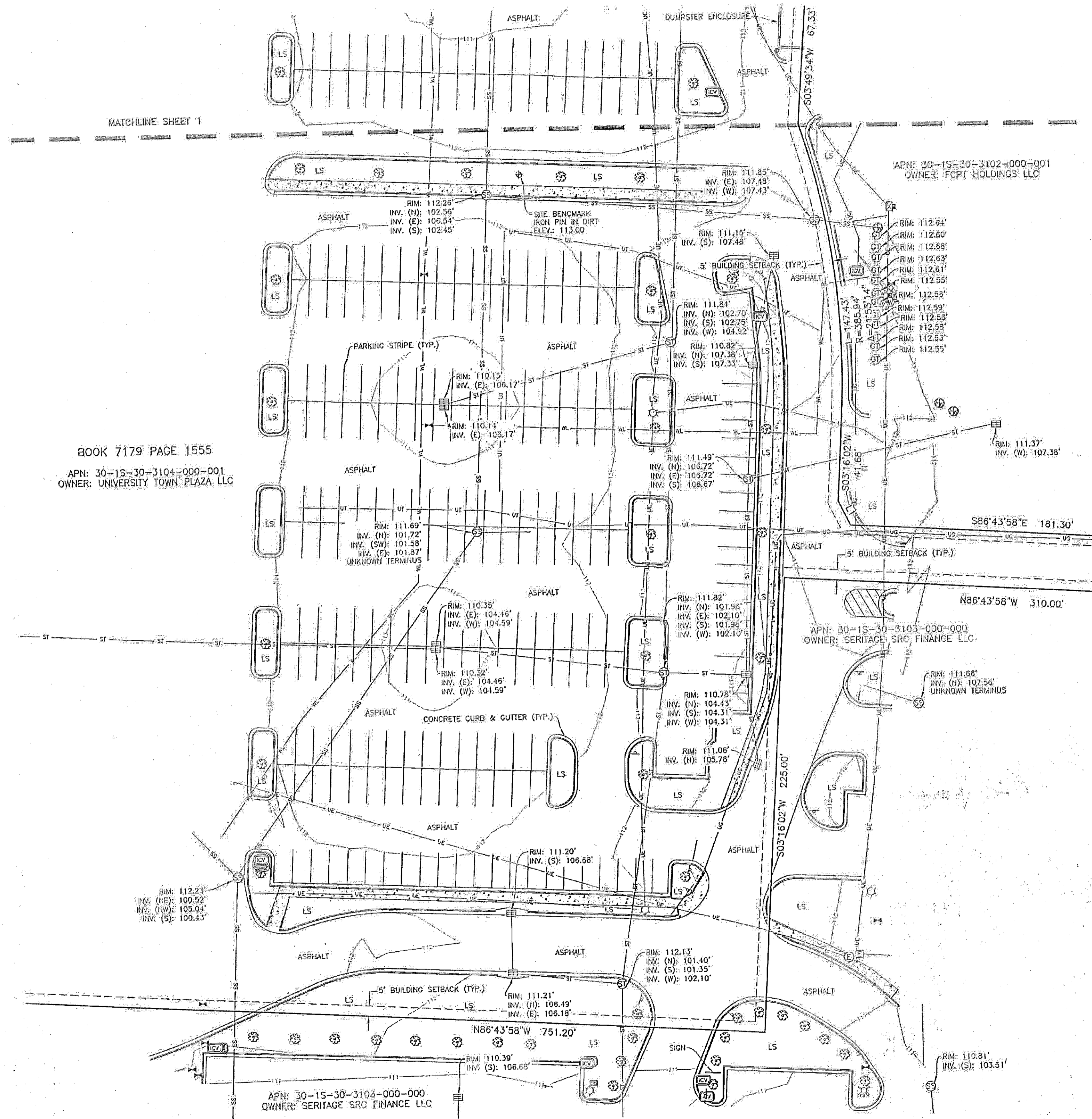
ENGINEERING DESIGN SURVEY
A PORTION OF THE NORTHWEST 1/4, SECTION 30,
TOWNSHIP 1 SOUTH, RANGE 30 WEST, TALLAHASSEE MERIDIAN,
CITY OF PENSACOLA, ESCAMBIA COUNTY, FLORIDA

Drawn By: C.W.
Checked By: S.C.
Date: 3/31/2021
Sheet: 1 of 2

Project No. 210351

- LEGEND**
- SITE BENCHMARK
 - SANITARY MANHOLE
 - SANITARY CLEANOUT
 - GREASE TRAP
 - STORM MANHOLE
 - STORM INLET (RECTANGLE)
 - FIRE HYDRANT
 - WATER VALVE
 - IRRIGATION CONTROL VALVE
 - WATER METER
 - BACKFLOW PREVENTER
 - LIGHT POLE
 - ELECTRIC MANHOLE
 - ELECTRIC TRANSFORMER
 - ELECTRIC BOX
 - ELECTRIC PEDESTAL
 - TELEPHONE VAULT
 - GAS VALVE
 - HANDICAP PARKING
 - DECIDUOUS TREE
 - LANDSCAPED AREA
 - BOLLARD
 - SIGN
 - STORM LINE (UNDERGROUND)
 - SANITARY LINE (UNDERGROUND)
 - WATER LINE (UNDERGROUND)
 - GAS LINE (UNDERGROUND)
 - ELECTRIC LINE (UNDERGROUND)
 - TELEPHONE LINE (UNDERGROUND)
 - CONCRETE AREA

LINE	BEARING	DISTANCE
L1	S26°37'49"E	13.23'



GRAPHIC SCALE
FOR REFERENCE ONLY
NOT TO SCALE

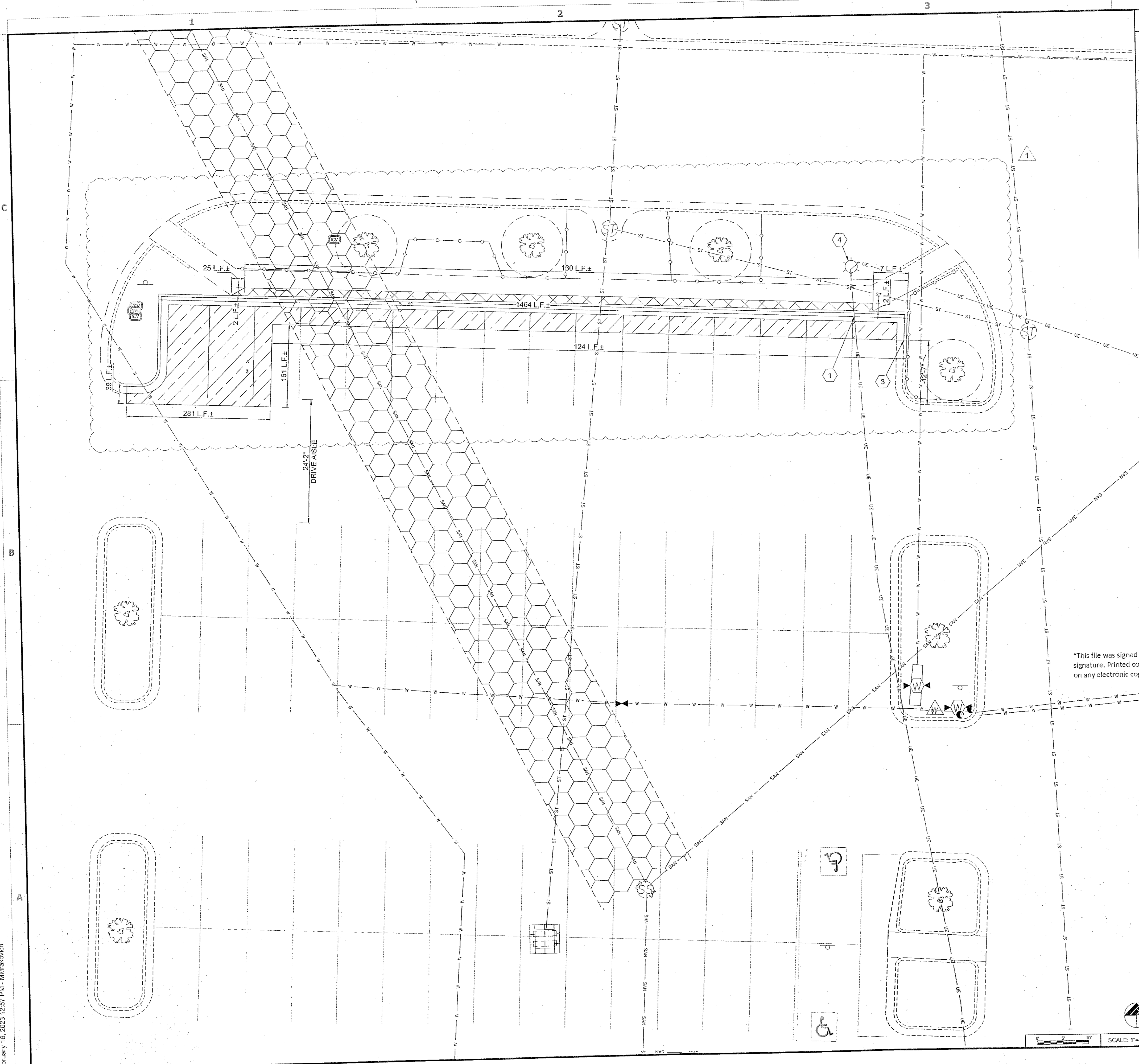
No.	Description	By	Date

SITE NAME:
University Town Plaza

ENGINEERING DESIGN SURVEY
A PORTION OF THE NORTHWEST 1/4, SECTION 30,
TOWNSHIP 1 SOUTH, RANGE 50 WEST, TALLAHASSEE MERIDIAN,
CITY OF PENSACOLA, ESCAMBIA COUNTY, FLORIDA

Project No. 210351
Date: 3/31/2021
Drawn By: CJW
Checked By: SCC
Sheet 2 of 2

Drawing Name: C:\2020\202014181 - TRT 17686 - Pensacola, FL.dwg
 February 16, 2023 12:57 PM - Mihalovich



"This file was signed electronically by L. Sierra on the date and/or time stamp shown using a digital signature. Printed copies of this are not considered signed and sealed and the signature must be verified on any electronic copy."

DEMOLITION KEYNOTES AND LEGEND #

1. EXISTING UNDERGROUND ELECTRIC LINE TO BE RELOCATED.
 2. PROPOSED TREE PROTECTION BARRICADE
 3. EXISTING CURB AND GUTTER TO BE REMOVED.
 4. EXISTING LIGHT POLE TO BE REMOVED AND RELOCATED.
- EXISTING CONCRETE TO BE REMOVED (APPROXIMATELY 193 SF) TRENCHING NOT INCLUDED. REMOVE UP TO EXISTING JOINT.
- EXISTING ASPHALT TO BE REMOVED (APPROXIMATELY 964 SF) TRENCHING NOT INCLUDED. REMOVE UP TO EXISTING JOINT.
- XX L.F.± DENOTES LIMITS OF SAWCUT
- PROPOSED DANDY BAG OR APPROVED EQUAL. SEE DETAIL ON CIVIL SHEETS
- PROPOSED TREE PROTECTION FENCE, SEE DETAIL ON SHEET C-4
- EXISTING 20' SANITARY EASEMENT. LOCATION BASED ON SURVEY ASSUMING SANITARY LINE IS CENTER OF EASEMENT.
- AREA OF NON-DISTURBANCE, 6' RADIUS AROUND ALL TREES

GENERAL SHEET NOTES

1. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
2. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
3. FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.
4. PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY CLARK LAND SURVEYING, INC., DATED 03/31/2021 FOR EXACT LOCATION.
5. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND THE ESCAMBIA COUNTY. ANY DEVIATIONS MAY RESULT IN DELAYS IN OBTAINING A CERTIFICATE OF OCCUPANCY.
6. THE CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATION.
7. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH SEEDING, FERTILIZER AND MULCH, HYDROSEED AND/OR SOD PER GENERAL NOTES.
8. ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE DEVELOPER PRIOR TO FINAL COUNTY'S ACCEPTANCE.

GPD GROUP, INC.
 LIC. # - 30920

520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

TESLA

3500 DEER CREEK RD
 PALO ALTO, CA 94304
 (650) 991-0001

REV	DATE	DESCRIPTION
A	07.14.21	ISSUED FOR 90% REVIEW
B	01.28.22	ISSUED FOR 90% REVIEW
C	02.10.22	ISSUED FOR 90% REVIEW
D	03.08.22	ISSUED FOR 90% REVIEW
E	08.11.22	ISSUED FOR 90% REVIEW
F	08.17.22	SIGNED AND SEALED
1	10.10.22	REVISED PER COMMENTS
2	12.16.22	REVISED PER COMMENTS
3	02.02.23	REVISED PER COMMENTS

LEONARDO A. SFERRA
 LICENSE No. 80859

02/16/23

7171 N. DAVIS HWY,
 UNIT 650
 (TESLA STATION)
 PENSACOLA, FL 32504

DEMOLITION PLAN

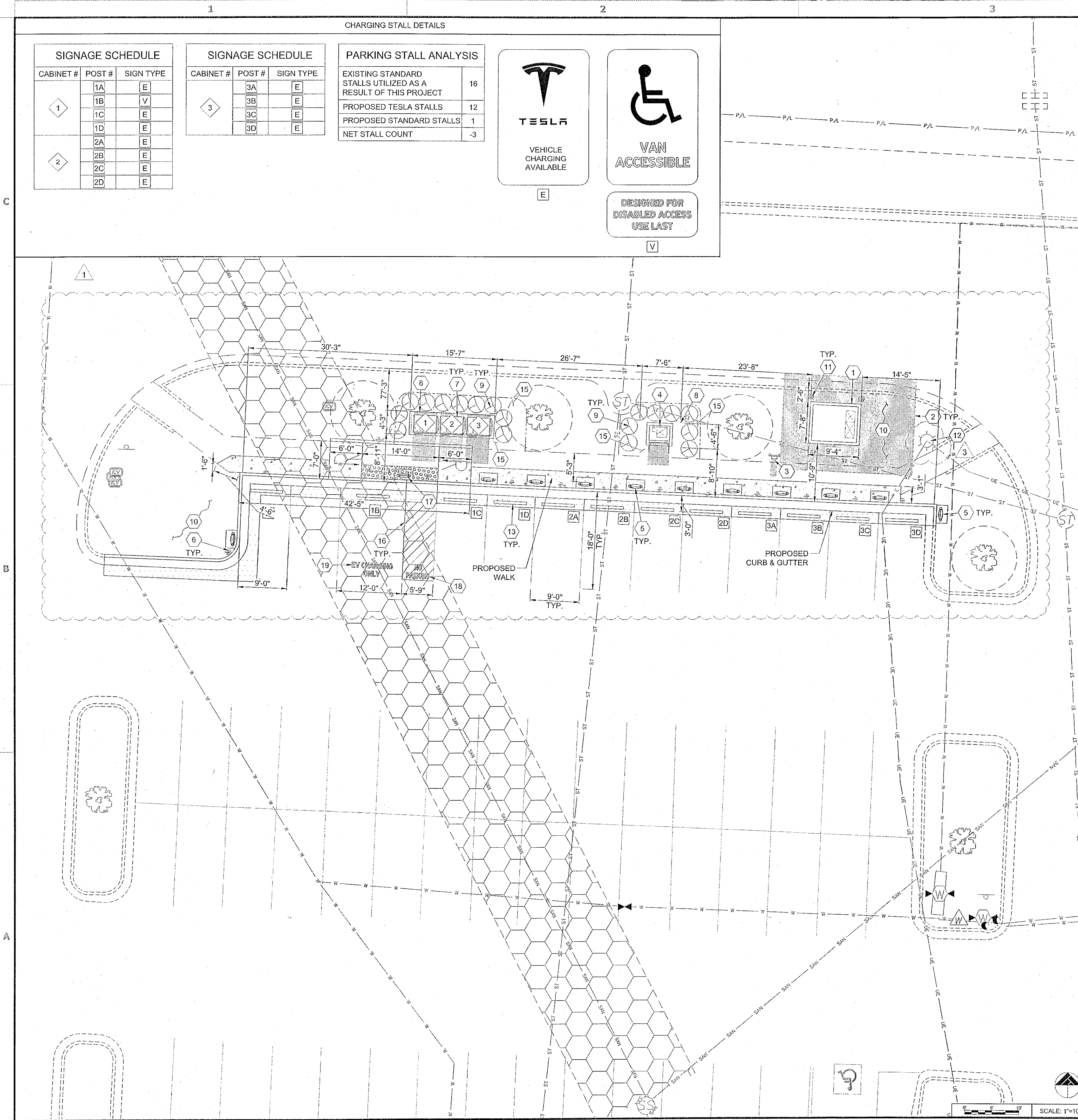
ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

C-1

Drawing Name: C:\2020\202014181 - TR1 17696 - Pensacola, FL\dwg\202014181 - Pensacola, FL - CD100.dwg
 February 16, 2023 12:59 PM - M.Mirakovich



CHARGING STALL DETAILS

SIGNAGE SCHEDULE		
CABINET #	POST #	SIGN TYPE
1	1A	E
	1B	V
	1C	E
	1D	E
2	2A	E
	2B	E
	2C	E
	2D	E

SIGNAGE SCHEDULE		
CABINET #	POST #	SIGN TYPE
3	3A	E
	3B	E
	3C	E
	3D	E

PARKING STALL ANALYSIS		
EXISTING STANDARD STALLS UTILIZED AS A RESULT OF THIS PROJECT	16	
PROPOSED TESLA STALLS	12	
PROPOSED STANDARD STALLS	1	
NET STALL COUNT	-3	

TESLA

VEHICLE CHARGING AVAILABLE

VAN ACCESSIBLE

DESIGNED FOR DISABLED ACCESS USE LAST

CONSTRUCTION KEYNOTES AND LEGEND

- PROPOSED PAD MOUNTED ELECTRICAL UTILITY TRANSFORMER (BY UTILITY). CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY SPECIFICATIONS. COORDINATE FINAL LOCATION WITH UTILITY. SEE ELECTRICAL PLANS FOR PROPOSED ROUTING.
- PROPOSED EQUIPMENT CLEAR SPACE (TYPICAL).
- PROPOSED ELECTRIC METER MOUNTED TO H-FRAME PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.
- PROPOSED SWITCHGEAR ASSEMBLY W/ INTEGRATED MASTER CONTROLLER PER ELECTRICAL DRAWINGS. SEE SHEET C-3 FOR ANCHORAGE DETAIL.
- PROPOSED TESLA CHARGE POST WITH INDIVIDUAL CAST-IN-PLACE CONCRETE FOUNDATION (TYPICAL OF 12). SEE DETAILS ON SHEET C-3.
- PROPOSED TESLA NON-ILLUMINATED PARKING SIGN (TYPICAL OF 12). SEE DETAILS ON SHEET C-3. SEE CHARGING POST SCHEDULE THIS SHEET FOR SIGN TYPE.
- PROPOSED TESLA CHARGING CABINET (TYPICAL OF 3). SEE DETAILS ON SHEETS C-3.
- PROPOSED CONCRETE PAD. SEE DETAIL ON SHEET C-3.
- PROPOSED LANDSCAPE: SHRUBS. (18) TOTAL QUANTITY CHRYSOBALANUS ICACO 'RED TIP', COCOPLUM. TO BE PLANTED AT 36" HT., 36" O/C SPACING. SEE PLANTING DETAIL ON SHEET C-3 AND LANDSCAPE/IRRIGATION NOTES ON SHEET GN-1.
- ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER LANDSCAPE/IRRIGATION NOTES ON SHEET GN-1.
- PROPOSED REMOVABLE DETERRENT BOLLARD (TYP. OF 2). SEE DETAIL ON SHEET NA-5.
- PROPOSED RELOCATED LIGHT POLE. SEE DETAIL ON SHEET C-4.
- PROPOSED WHEELSTOP (TYP. OF 12). SEE DETAIL ON SHEET C-3.
- ALL ADEQUATE TREE PROTECTION MEASURES AND BARRICADES SHALL BE INSTALLED AROUND TREES PRIOR TO SITE DISTURBANCE ACTIVITIES AND MAINTAINED IN GOOD WORKING ORDER UNTIL PROJECT IS COMPLETE AND SITE BECOMES STABILIZED.
- PROPOSED LANDSCAPE BED AREA SHALL BE MULCHED PER LANDSCAPE/IRRIGATION NOTES ON SHEET GN-1.
- PROPOSED PAINTED 4" WIDE SOLID WHITE STRIPE. SEE PAVEMENT MARKING NOTES ON SHEET GN-1.
- CONTRACTOR SHALL INSTALL POST SO ACCESS PANEL IS FACING STALL.
- PROPOSED PAVEMENT MARKING TO READ "NO PARKING" IN WHITE LETTERS, 12 INCHES
- PROPOSED PAVEMENT MARKING TO READ "EV CHARGING ONLY" IN WHITE LETTERS, 12 INCHES

LEGEND

- PROPOSED CONCRETE (APPROXIMATELY 381 SF) TRENCHING NOT INCLUDED
- PROPOSED ASPHALT PAVEMENT TO MATCH EXISTING IN TYPE AND DEPTH. INCLUDE ENGINEERED COMPACTED BACKFILL BELOW PAVEMENT SECTION. (APPROXIMATELY 296 SF) TRENCHING NOT INCLUDED
- EXISTING 20' SANITARY EASEMENT. LOCATION BASED ON SURVEY ASSUMING SANITARY LINE IS CENTER OF EASEMENT.
- PROPOSED TRENCHED SPADE EDGE (SHARP 45 DEGREE WHERE MULCH MEETS LAWN)
- AREA OF NON-DISTURBANCE, 6' RADIUS AROUND ALL TREES

SITE DATA TABLE	
PROPOSED IMPERVIOUS AREA	190 SF
PROPOSED PERVIOUS AREA	315 SF
NET INCREASE OF PERVIOUS AREA	+125 SF

- GENERAL SHEET NOTES**
- CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY TESLA OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
 - APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
 - PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY OR DESIGN DRAWINGS BY CLARK LAND SURVEYING, INC., DATED 03/31/2021 FOR EXACT LOCATION.
 - SEE CLARK SURVEY FOR ALL APPLICABLE BENCHMARKS.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SLOPES AND GRADES PRIOR TO CONSTRUCTION. FINAL GRADES SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.
 - CONTRACTOR SHALL ENSURE SLOPES OF PARKING STALL 1B AND ADJACENT TRANSVERSE STRIPED AREA CONFORM WITH ADA SLOPE REQUIREMENTS. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN PARKING STALL 1B AND ADJACENT TRANSVERSE STRIPED AREA. CONTRACTOR SHALL REMOVE AND RE-GRADE PAVEMENT AS REQUIRED TO ACHIEVE NECESSARY SLOPES PER AHJ ACCESSIBILITY REGULATIONS. CONTRACTOR SHALL INSTALL FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH THE CURRENT AHJ'S REGULATIONS.

"This file was signed electronically by L. Sterra on the date and/or time stamp shown using a digital signature. Printed copies of this are not considered signed and sealed and the signature must be verified on any electronic copy."

GPD GROUP, INC.
 LIC. # - 30920

520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

TESLA

3300 ORER CREEK RD
 PALO ALTO, CA 94304
 (650) 941-0000

REV.	DATE	DESCRIPTION
A	07/14/21	ISSUED FOR 90% REVIEW
B	01/28/22	ISSUED FOR 90% REVIEW
C	02/10/22	ISSUED FOR 90% REVIEW
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F	08/17/22	SIGNED AND SEALED
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3	02/02/23	REVISED PER COMMENTS

LEONARDO A. SFERRA
 LICENSE No. 80859

02/16/23

7171 N. DAVIS HWY.,
 UNIT 650
 (TESLA STATION)
 PENSACOLA, FL 32504

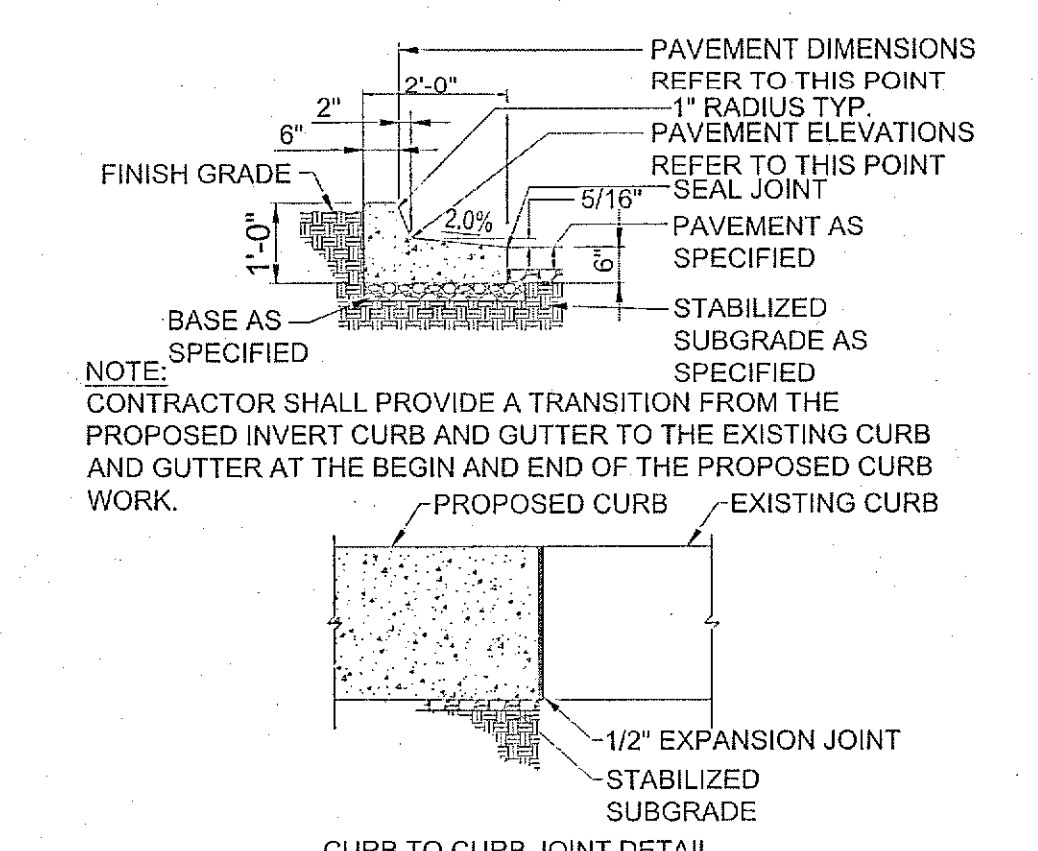
SITE PLAN

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

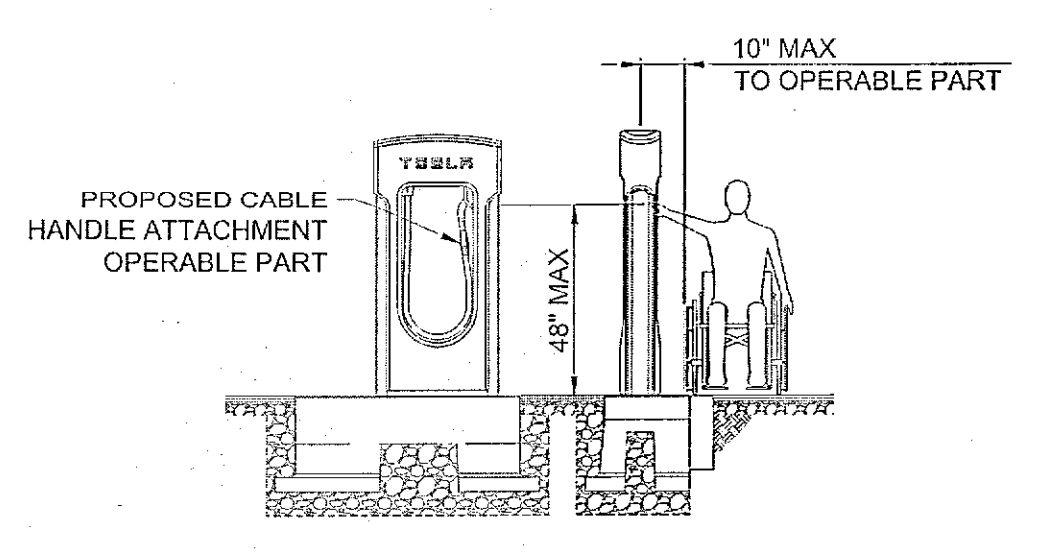
INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

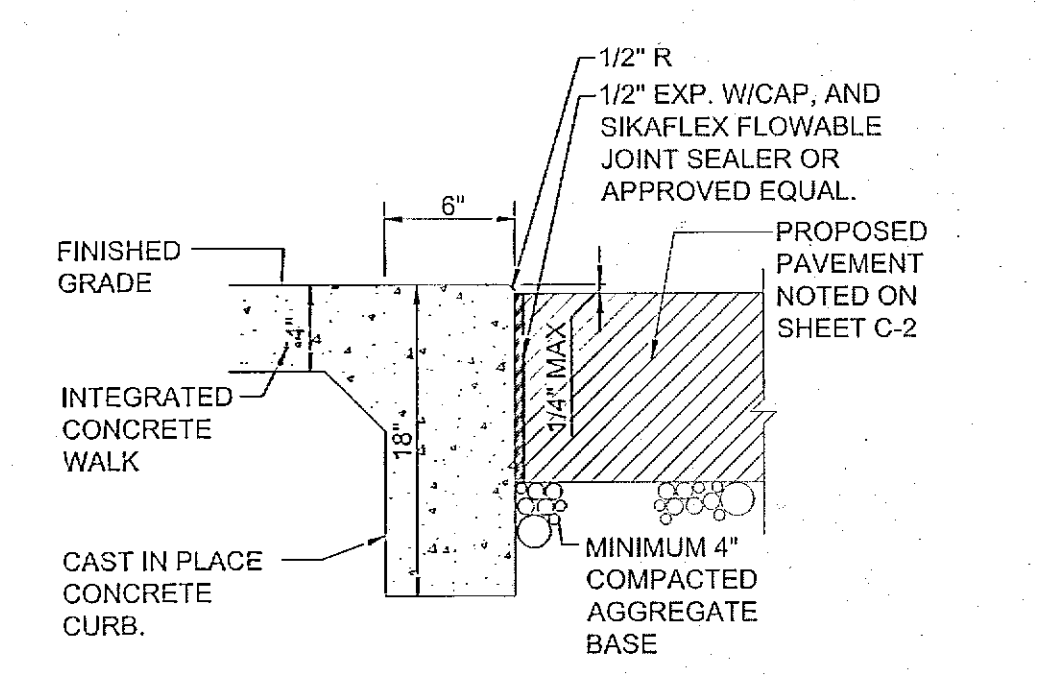
C-2



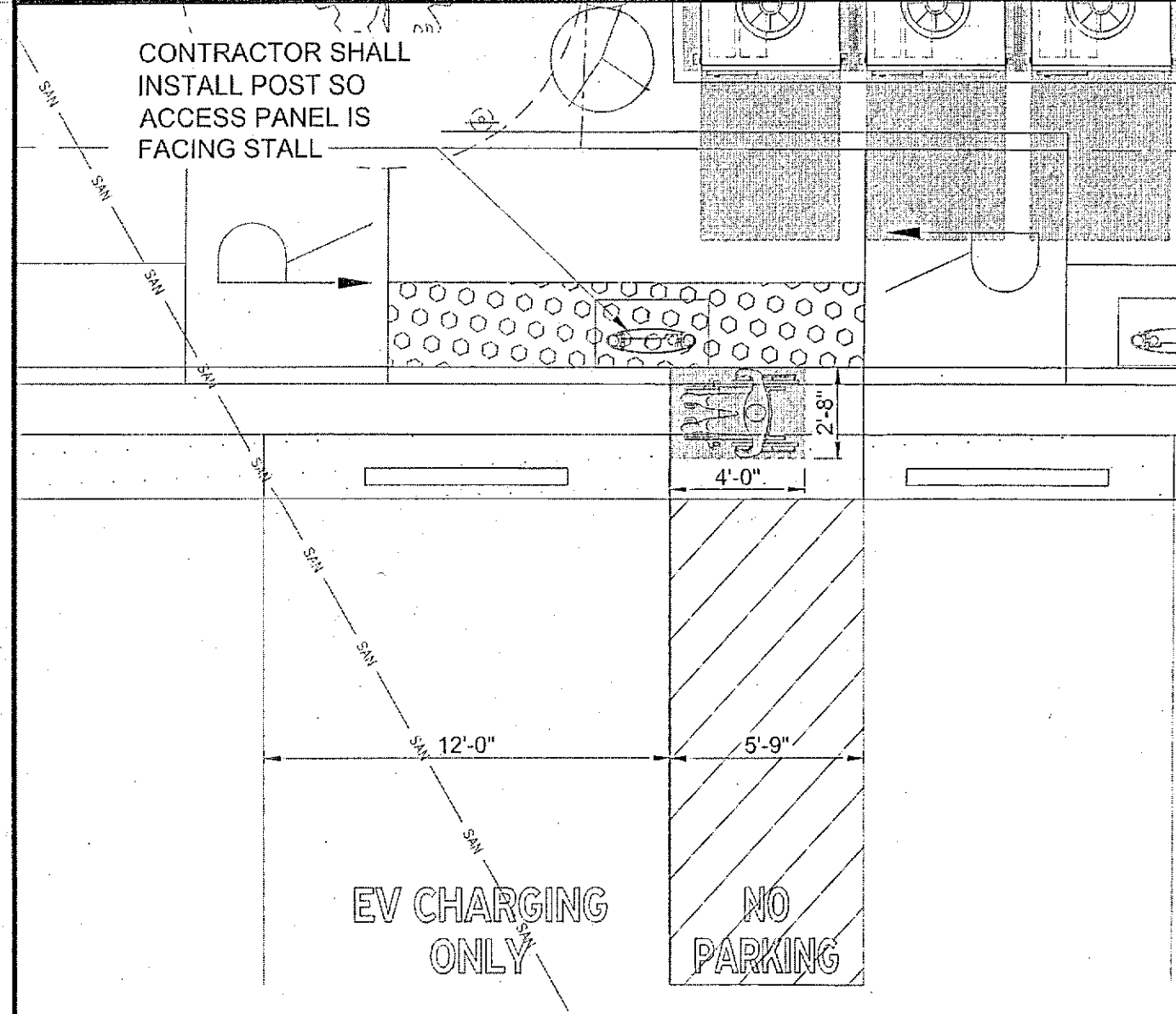
REVERSE PITCH P.C.C. CURB & GUTTER DETAIL N.T.S 1



ACCESSIBLE SIDE REACH ELEVATION N.T.S 6

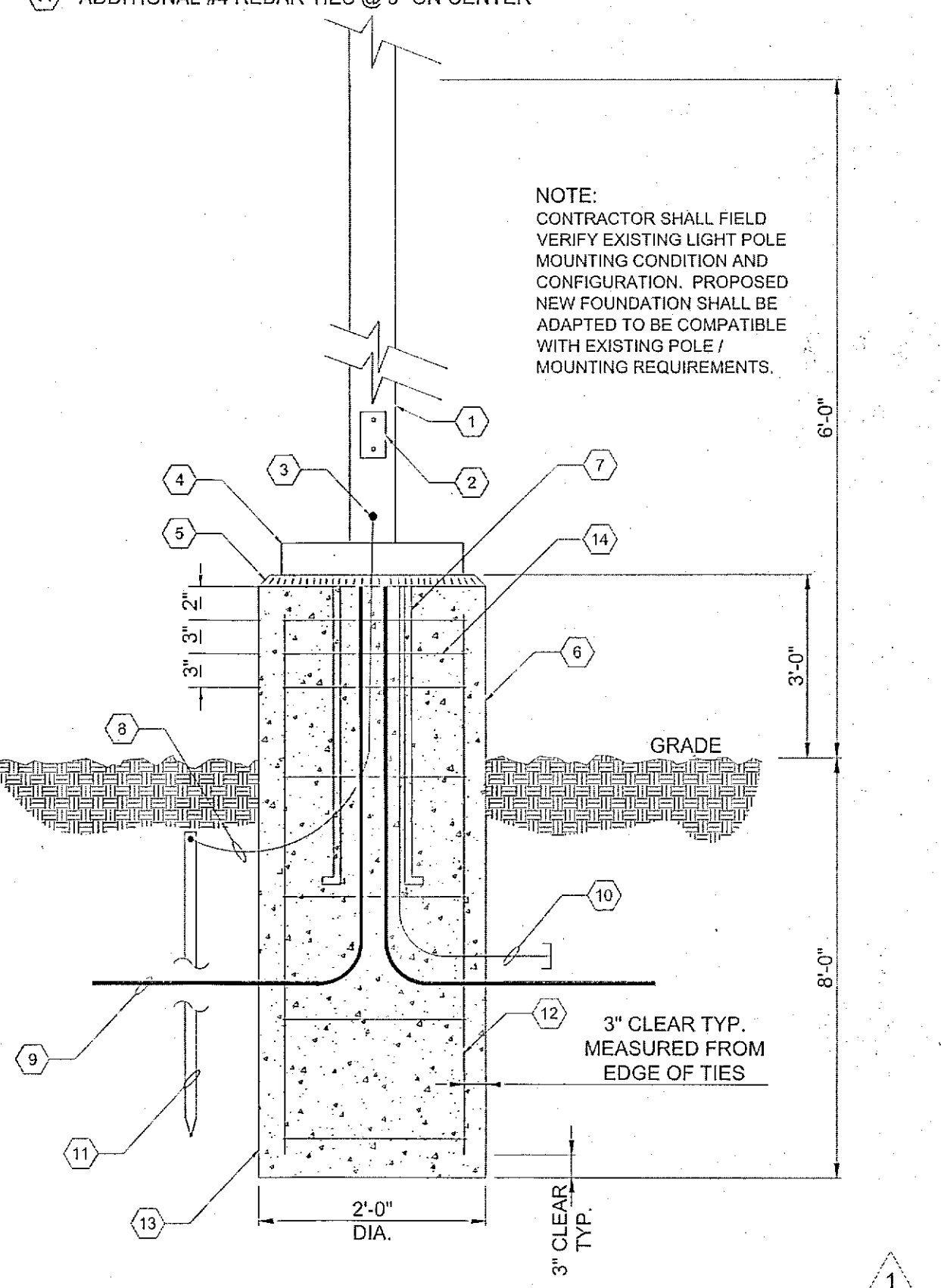


FLUSH CONCRETE CURB AND INTEGRATED WALK N.T.S 4

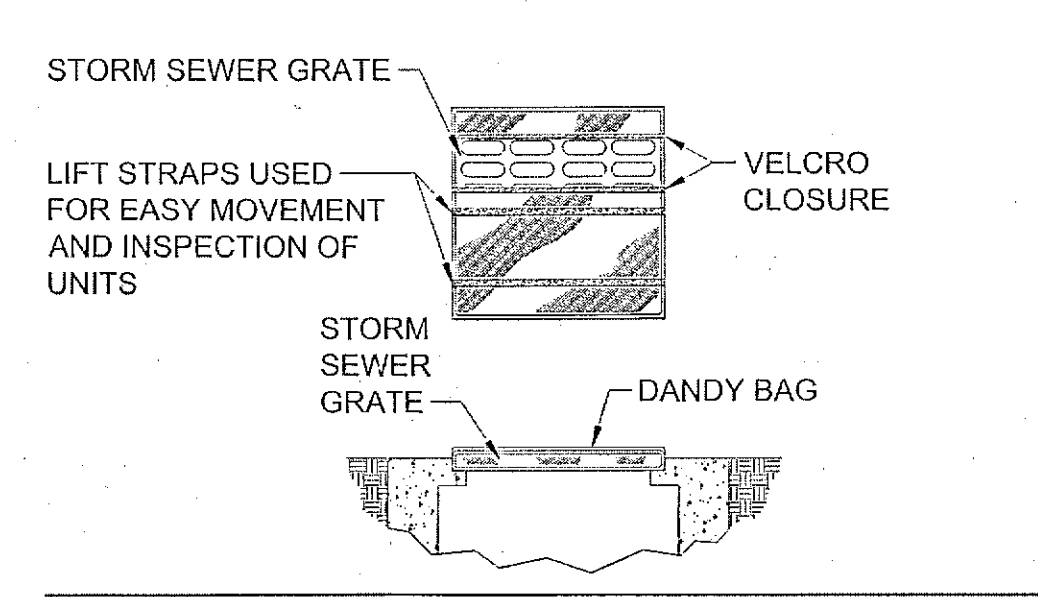


ACCESSIBLE SIDE REACH PLAN N.T.S 9

- KEYED NOTES**
- EXISTING LIGHT POLE TO BE RELOCATED
 - HAND HOLE
 - GROUND LUG
 - BOLT COVER
 - 3/4" CHAMFER
 - RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
 - CONTRACTOR SHALL COORDINATE WITH POLE MANUFACTURER FOR ANCHOR BOLTS
 - #6 CU. BARE GROUND CONDUCTOR
 - BRANCH CIRCUIT WIRING IN CONDUIT AT 24" (MINIMUM) BELOW GRADE
 - 1" SPARE CONDUIT STUBBED INTO POLE BASE & CAPPED 12" FROM BASE
 - 3/4"x10'-0" CU. CLAD GROUND ROD
 - (6) #8 REBAR (VERTICAL) TIE-WIRED TO #4 REBAR TIES AT 12" ON CENTER, U.O.
 - REINFORCED CONCRETE, 2500 PSI COMPRESSIVE STRENGTH
 - ADDITIONAL #4 REBAR TIES @ 3" ON CENTER



LIGHT POLE FOUNDATION DETAIL N.T.S 5

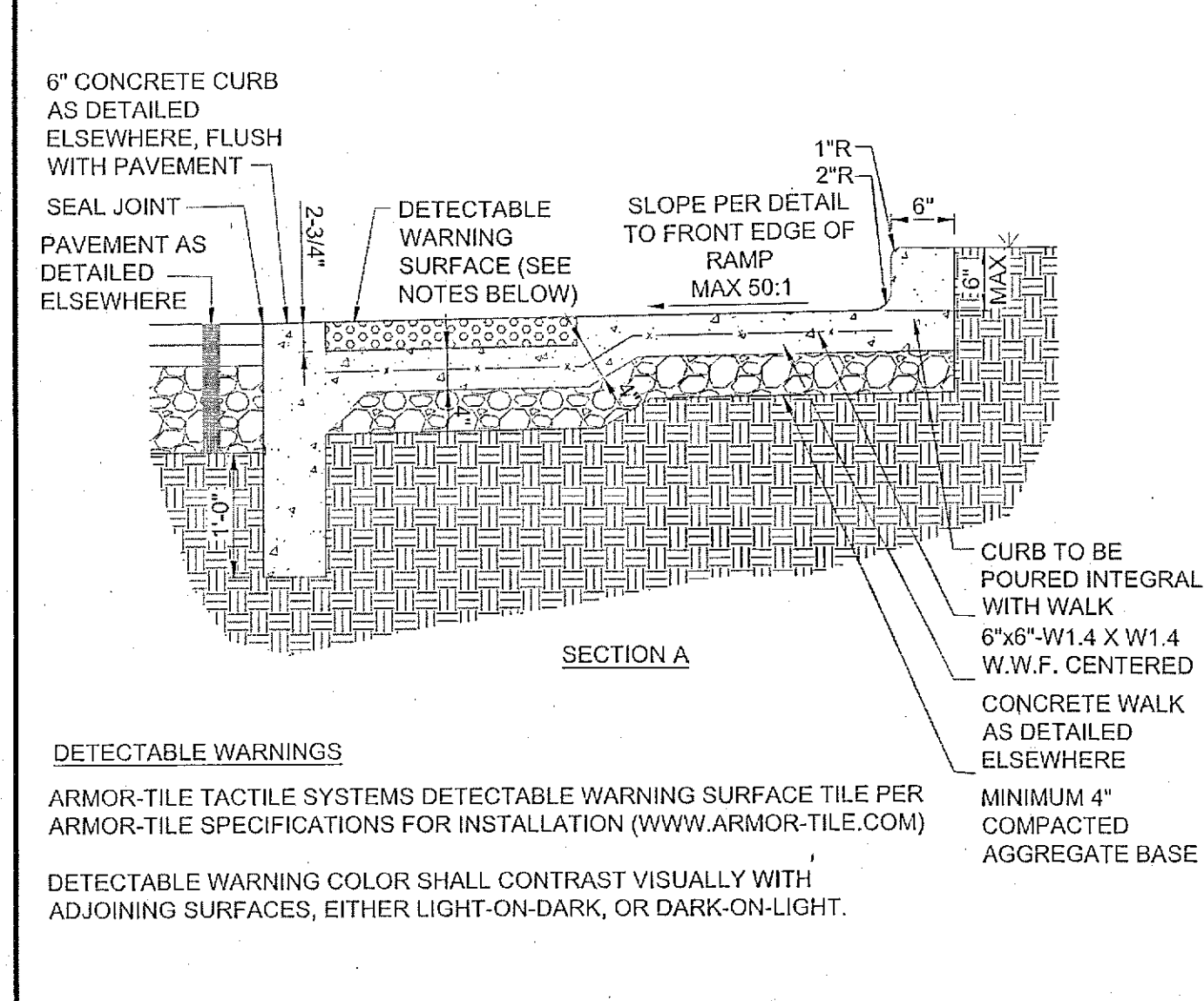


DANDY BAG SPECIFICATIONS
NOTE: THE DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:
HI-FLOW DANDY BAG (SAFETY ORANGE)

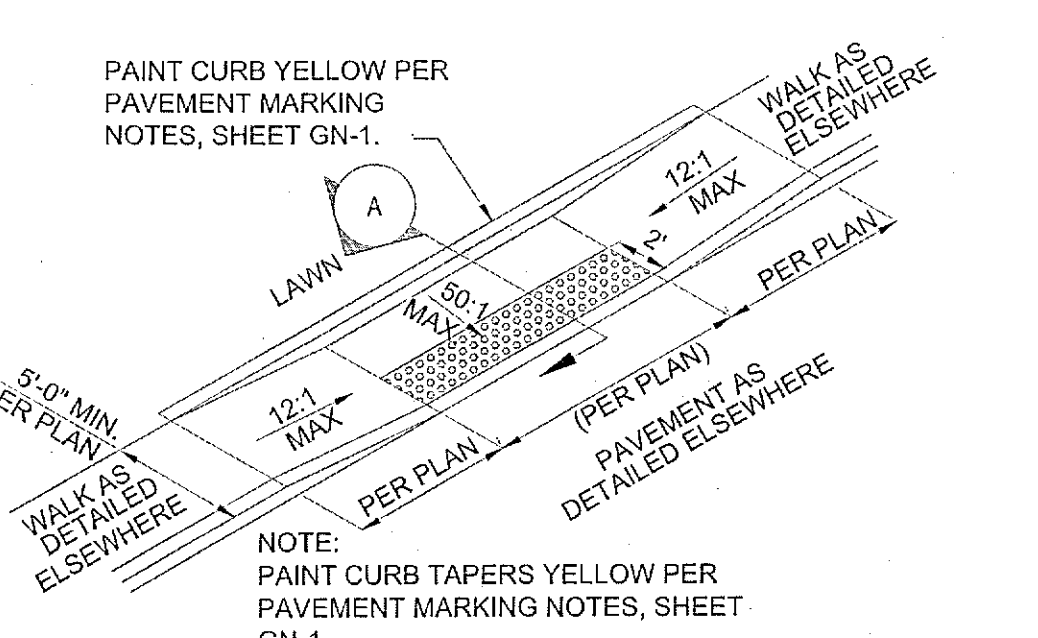
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
Grab Tensile Strength	ASTM D 4902	N (60)	1.62 (265) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4902	%	24 X 10
Puncture Strength	ASTM D 4903	ML (lb)	0.85 (20)
Median Burst Strength	ASTM D 5756	32" (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kl (lb)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Min (US Std Sieve)	0.425 (10)
Flow Rate	ASTM D 5491	liters/min (gal/min)	5967 (145)
Permeability	ASTM D 4591	Sec	< 1

*Note: All Dandy Bags can be ordered with our optional oil absorbent pillows

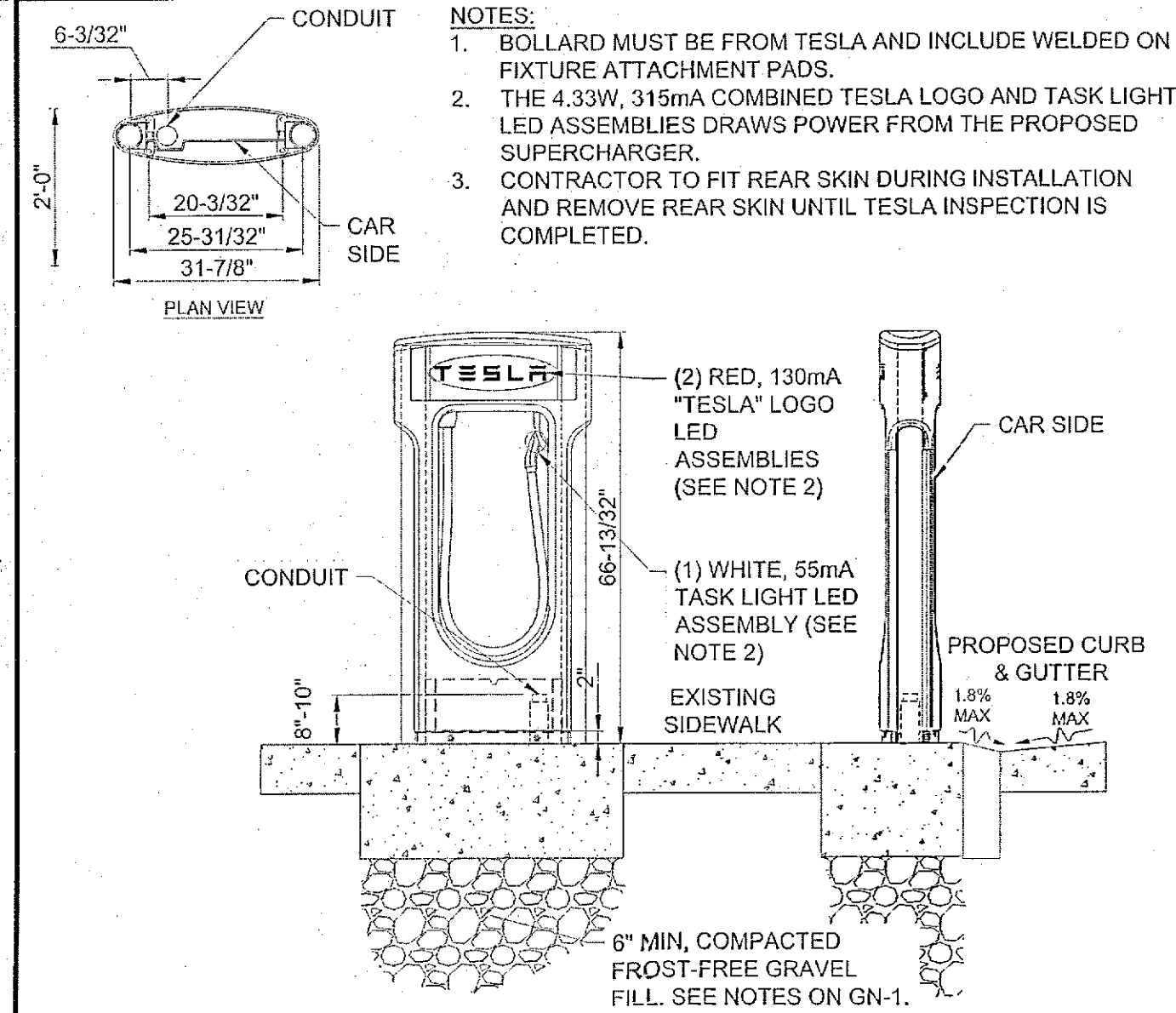
DANDY BAG DETAIL N.T.S 2



ADA ACCESSIBLE PARALLEL RAMP DETAIL N.T.S 10



PARALLEL RAMP N.T.S 7



ADA CHARGING POST CONCRETE FOUNDATION N.T.S 11

DETAIL NOT USED N.T.S 8

REV.	DATE	DESCRIPTION
A	07.14.21	ISSUED FOR 90% REVIEW
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LEONARDO A. SFERRA
LICENSE No. 80859
No. 90859
FLORIDA PROFESSIONAL ENGINEER
02/16/23

7171 N. DAVIS HWY.,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504
CIVIL DETAILS

ISSUED FOR:

PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

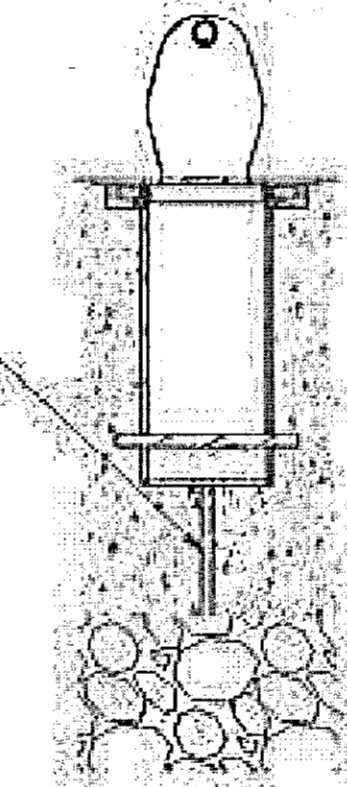
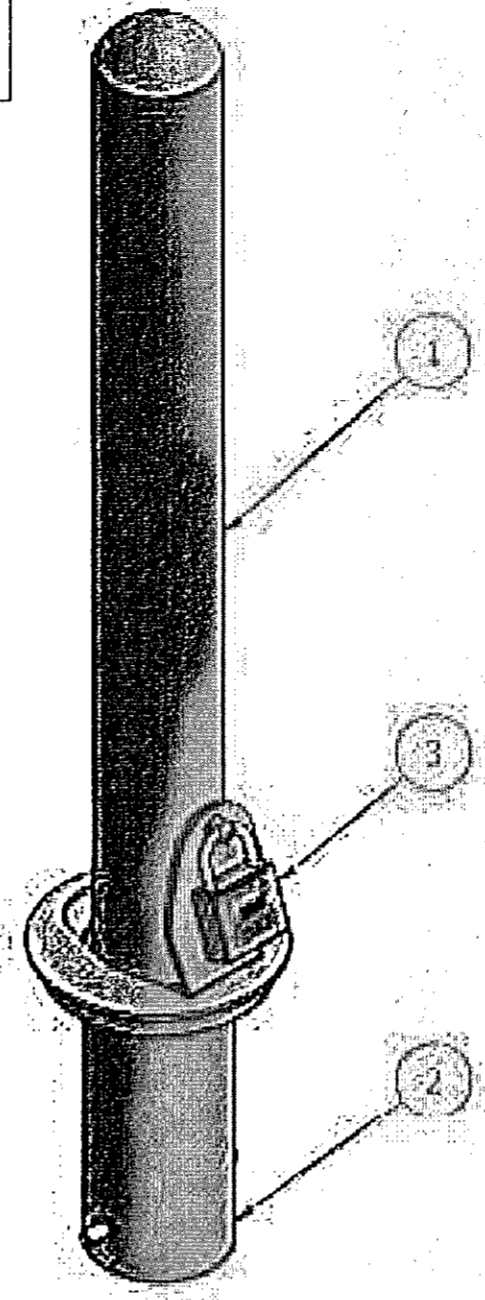
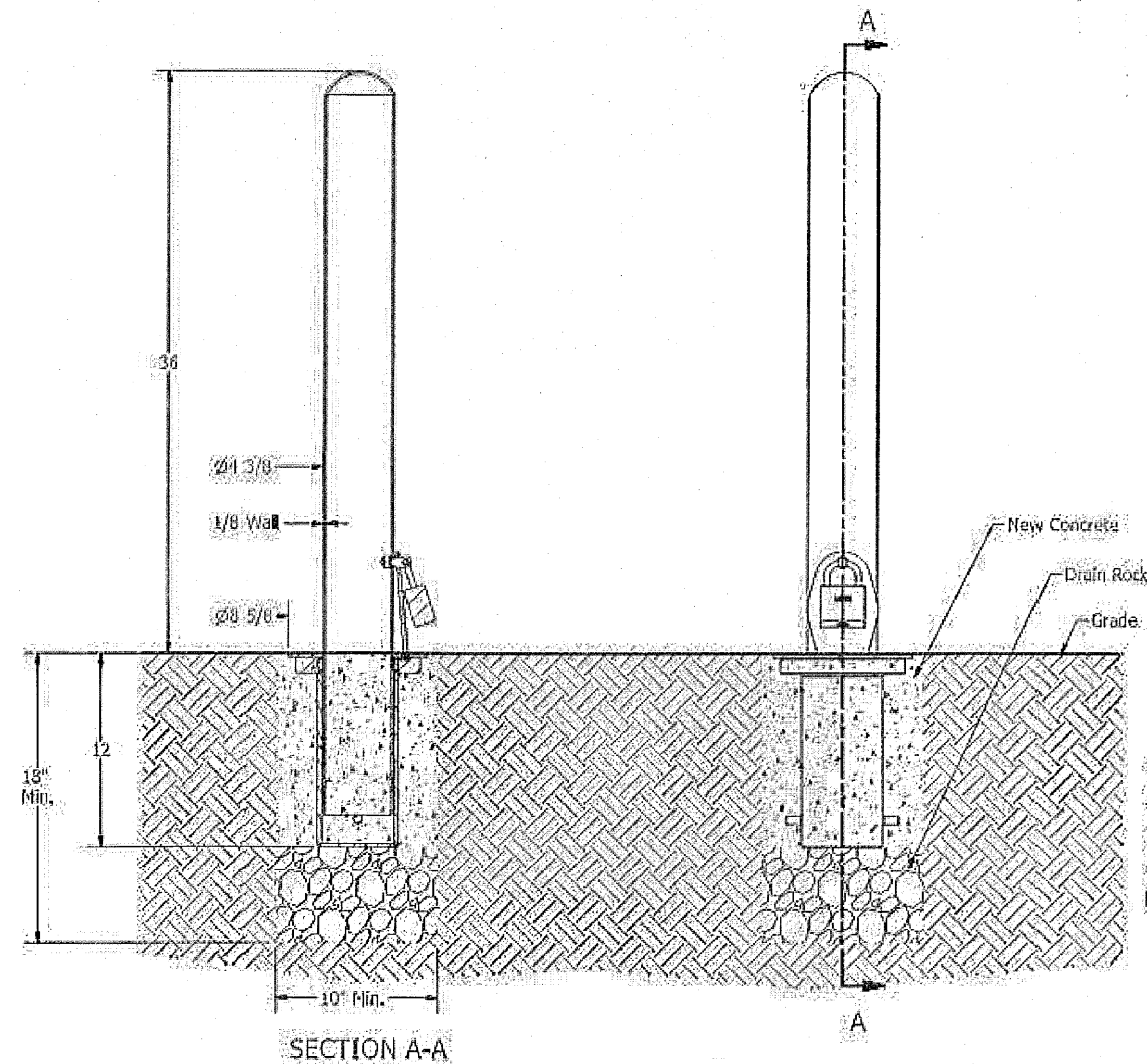
INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

C-4

Bollard Post, Model R-7902

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General Description:

Make a pronounced statement on entry to your streetscape, business, park, school or stadium with the contemporary and practical design of the Model R-7902 steel bollard. A staple of the product line, it will complement the aesthetics of almost any architectural style. It can be embedded in new concrete or surface-mounted on existing concrete. For locations where access needs fluctuate, it can also be installed with removable or fold down mountings. The Model R-7902 can be finished in one of seven different powder-coated color options and it is kept in stock, available to ship immediately.

For more information on bollard post installation, please visit: www.reliance-foundry.com/bc-and-frisco-locations/bollards

Specifications:

- Height: 36" (Above Grade)
- Base Diameter: 4 3/8"
- Weight: 31 lbs (Bollard Post Full Length)
- Material: Steel (ASTM A36)

Finish Options:

- ✓ Polyester Powdercoated
- See Reliance Foundry's standard color options at www.reliance-foundry.com/bc-and-frisco-locations/bollards

Mount Options:

- ✓ Removable Receiver with Lid (see sheet 2 of 7)
- Removable Receiver with Chain (see sheet 3 of 7)
- Fixed Embedded Mount (see sheet 4 of 7)
- Flanged Surface Mount (see sheet 5 of 7)
- Fold Down Mount (see sheet 6 of 7)
- Optional Chain Accessory (see sheet 7 of 7)

Removable Receiver with Lid
(For important detail regarding installation with OPTIONAL bollard chain accessories, refer to sheet 7 of 7)

Notes:

- Embedment details are for reference illustration only. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
- Bollard post is provided as shown, with material detailed in legend below. Concrete, foundation and/or installation ordered separately or provided by others.
- This drawing is not drawn to scale. Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
- Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7902 Removable	Bollard R7902 Removable Assembly	Steel Powder Coated	31 lbs
2	1	R7901R Receiver	R7901R Receiver Assembly w/ Lid	Galvanized Steel w/ 316 Stainless Steel Cover	24 lbs
3	1	Padlock (Optional)	Optional Padlock (Brass or Stainless Steel)	Choice of Brass or Stainless Steel	5/8 lbs

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Unit 207, 6450 - 148 Street, Surrey, BC V3S 2G7, Canada
1-888-735-5690 info@reliance-foundry.com
www.reliance-foundry.com

Bollard Post, Model R-7902

SIZE	DWG NO.	REV.
C	R-7902	CL

NOT TO SCALE SHEET 2 OF 2



3303 DEER CREEK RD
PALO ALTO, CA 94304
(800) 691-6000

REV.	DATE	DESCRIPTION
A	10/14/21	ISSUED FOR 90% REVIEW
B	10/12/22	ISSUED FOR 90% REVIEW
C	02/10/22	ISSUED FOR 90% REVIEW
D	03/08/22	ISSUED FOR 90% REVIEW
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7171 N. DAVIS HWY.,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504

CIVIL DETAILS

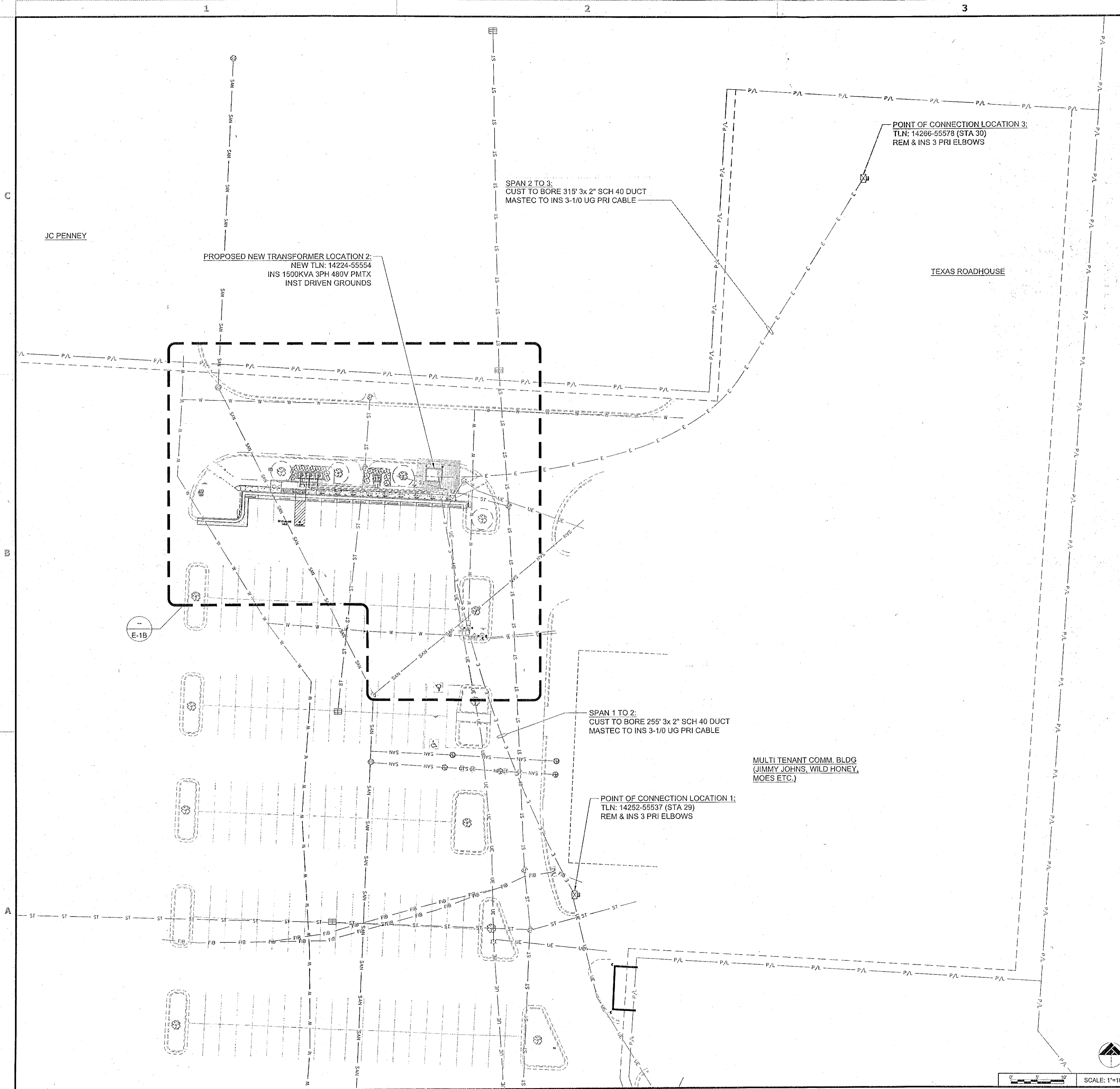
ISSUED FOR:	
PERMIT	xxx
BID	xxx
CONSTRUCTION	xxx
RECORD	xxx

INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

NA-5

Drawing Name: C:\2020\2020141181 - TRT 17696 - Pensacola, FL\dwg\2020141181 - Pensacola, FL - CD100.dwg
 February 16, 2023 12:58 PM - M.Mrakovich



- GENERAL SHEET NOTES**
- " (#)" DENOTES FEEDER REFERENCE. REFER TO SHEET E-2 FOR FEEDER/CIRCUIT SCHEDULE.
 - CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
 - CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
 - CONDUIT ELBOWS SHALL BE SIZED PER NEC. CONTRACTOR SHALL VERIFY MANUFACTURER ALLOWABLE FILL AND MINIMUM CONDUCTOR BENDING RADIUS. SEE FEEDER SCHEDULE FOR CONDUIT & CONDUCTOR SPECIFICATIONS.
 - ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
 - PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
 - UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
 - ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN TRENCH DETAILS, AS WELL AS MAINTAIN A MINIMUM OF 18" CLEAR OF ALL EXISTING OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES AND OTHER UNDERGROUND UTILITIES.
 - PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
 - FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES		
SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING/ BORING		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 (INSIDE TRANSFORMER)		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		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

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

POWER COMPANY CONTACTS
 GULF POWER
 ATTN: HANNAH NANO
 (850) 429-2810
 JORDAN.SEVERSON@NEXTERAENERGY.COM

"This file was signed electronically by S. Schaub on the date and/or time stamp shown using a digital signature. Printed copies of this are not considered signed and sealed and the signature must be verified on any electronic copy."

GPD GROUP, INC.
 LIC. # - 30920
 520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax 330.572.2101

TESLA
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 PALO ALTO, CA 94304
 (650) 961-9000

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STEVEN P. SCHAUB
 LICENSE No. 75207
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 02/16/23

7171 N. DAVIS HWY,
 UNIT 650
 (TESLA STATION)
 PENSACOLA, FL 32504

**ELECTRICAL
 EQUIPMENT PLAN**

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

E-1A



GENERAL SHEET NOTES

- "# " DENOTES FEEDER REFERENCE. REFER TO SHEET E-2 FOR FEEDER/CIRCUIT SCHEDULE.
- CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
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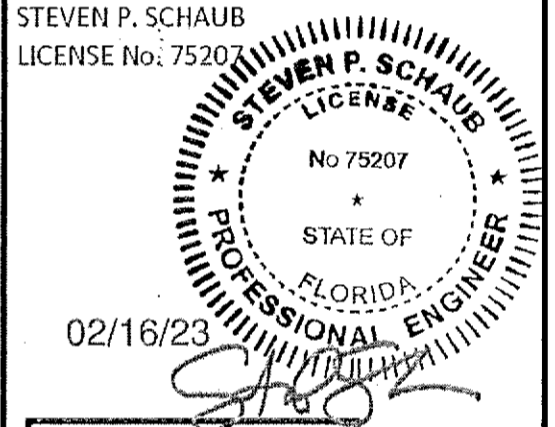
ELECTRICAL SCOPE OF WORK RESPONSIBILITIES		
SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING/ BORING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE UTILITY TRANSFORMER	X	
INSTALL 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 (INSIDE TRANSFORMER)		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		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

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

POWER COMPANY CONTACTS
GULF POWER
ATTN: HANNAH NANO
(850) 429-2810
JORDAN.SEVERSON@NEXTERAENERGY.COM

"This file was signed electronically by S. Schaub on the date and/or time stamp shown using a digital signature. Printed copies of this are not considered signed and sealed and the signature must be verified on any electronic copy."

REV.	DATE	DESCRIPTION
A	07.14.21	ISSUED FOR 90% REVIEW
B	01.28.22	ISSUED FOR 80% REVIEW
C	02.10.22	ISSUED FOR 90% REVIEW
D	03.09.22	ISSUED FOR 90% REVIEW
E	08.11.22	ISSUED FOR 90% REVIEW
F	08.17.22	SIGNED AND SEALED
1	10.10.22	REVISED PER COMMENTS
2	12.16.22	REVISED PER COMMENTS
3	02.02.23	REVISED PER COMMENTS



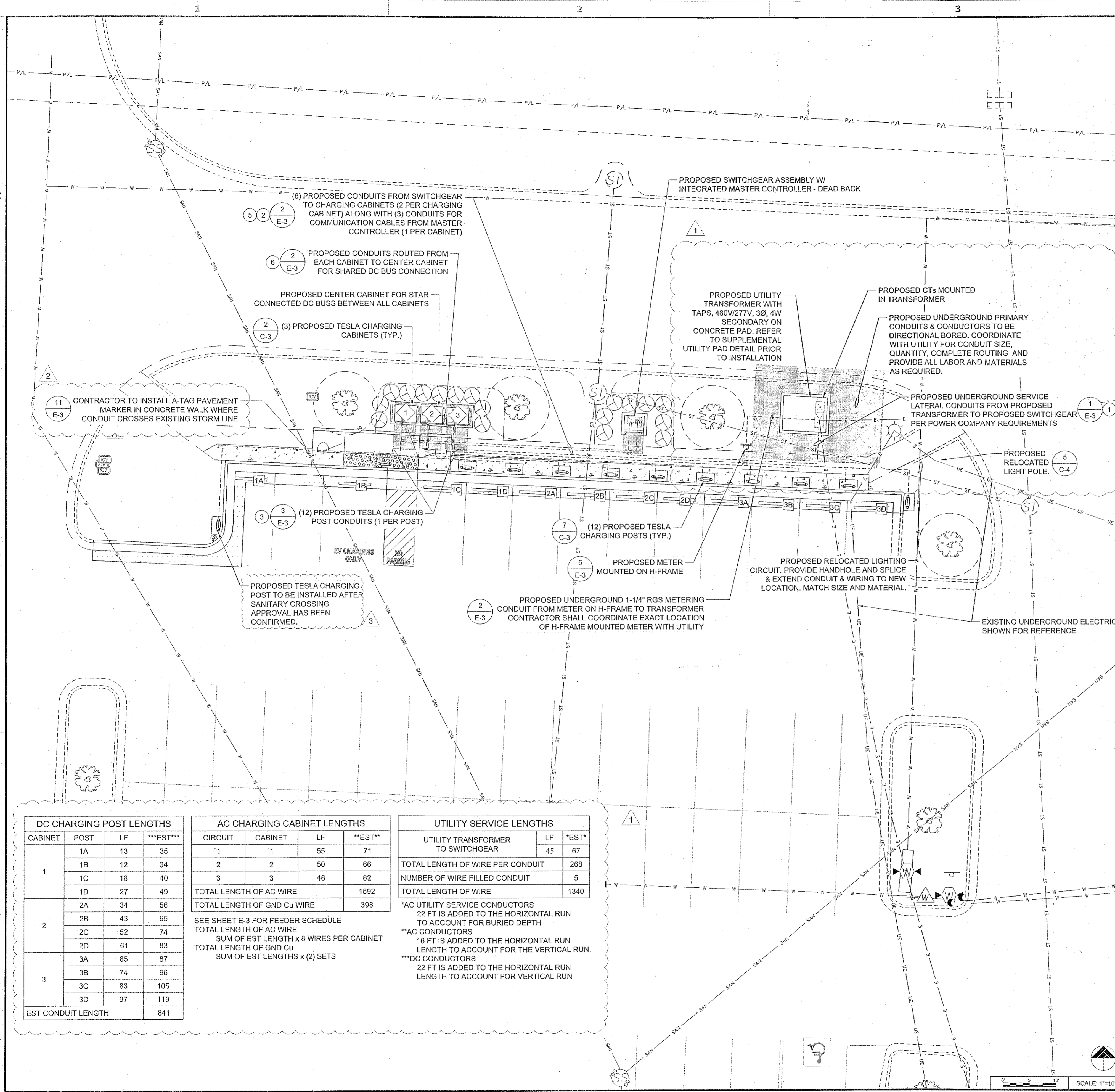
7171 N. DAVIS HWY,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504
ELECTRICAL EQUIPMENT PLAN

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

E-1B



DC CHARGING POST LENGTHS			
CABINET	POST	LF	**EST**
1	1A	13	35
	1B	12	34
	1C	18	40
	1D	27	49
2	2A	34	56
	2B	43	65
	2C	52	74
	2D	61	83
3	3A	65	87
	3B	74	96
	3C	83	105
	3D	97	119
EST CONDUIT LENGTH		841	

AC CHARGING CABINET LENGTHS			
CIRCUIT	CABINET	LF	**EST**
1	1	55	71
2	2	50	66
3	3	46	62
TOTAL LENGTH OF AC WIRE		1592	
TOTAL LENGTH OF GND Cu WIRE		398	

SEE SHEET E-3 FOR FEEDER SCHEDULE
TOTAL LENGTH OF AC WIRE
SUM OF EST LENGTH x 8 WIRES PER CABINET
TOTAL LENGTH OF GND Cu
SUM OF EST LENGTHS x (2) SETS

UTILITY SERVICE LENGTHS		
UTILITY TRANSFORMER TO SWITCHGEAR	LF	*EST*
	45	67
TOTAL LENGTH OF WIRE PER CONDUIT		268
NUMBER OF WIRE FILLED CONDUIT		5
TOTAL LENGTH OF WIRE		1340

*AC UTILITY SERVICE CONDUCTORS
22 FT IS ADDED TO THE HORIZONTAL RUN TO ACCOUNT FOR BURIED DEPTH
**AC CONDUCTORS
16 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR THE VERTICAL RUN.
***DC CONDUCTORS
22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR VERTICAL RUN

Drawing Name: C:\2020\2020141.81 - TRT 17686 - Pensacola, FL\dwg\2020141.81 - Pensacola, FL - CD100.dwg
February 16, 2023 12:58 PM - MMrakovich

GENERAL ELECTRICAL SPECIFICATIONS

- 1. THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THE CONTRACTOR
2. IMPORTANT NOTE: "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS SUBCONTRACTORS UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS THAT ARE TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
4. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL NOTE SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
6. CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: THE CONTRACT, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND TO PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF OWNER.
7. CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
8. INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUITS, ETC. MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND, AND HOLIDAY WORK AS REQUIRED.
9. ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE AWARD OF THE CONTRACT AND AN ADDENDUM WILL BE ISSUED TO COVER SAME.
10. GUARANTEE - CONTRACTOR SHALL FURNISH OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS OF WORK OR MATERIALS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.
11. MATERIALS - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE, AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.
12. CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
13. ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
14. 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.

LICENSES, CERTIFICATIONS OF INSPECTION

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK.
2. CONTRACTOR AND ALL OF HIS SUBCONTRACTORS THAT PERFORM ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED BY ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO TAKE PLACE. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED, ALL COSTS SHALL BE BORNE BY CONTRACTOR.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE BUILDING OWNER. CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

CODES AND ORDINANCES

- 1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST EDITION OF NEC AND ALL APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT 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 CODES

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

- 1. AS-BUILT REQUIREMENTS: DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. TO PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS, STORE IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE OWNER'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK DRAWINGS THAT ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN

VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE OWNER'S RECORDS. CONTRACTOR SHALL SUBMIT AS-BUILT SET OF PLANS TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION.

EXISTING CONDITIONS AND DEMOLITION

- 1. ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.
3. EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING RENOVATION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY LINES, DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING CONDUITS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
6. SITE VISIT - CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTOR'S MEASUREMENTS.

BASIC ELECTRICAL MATERIALS AND METHODS

- 1. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT CHASES IN WALLS AND FLOORS AS REQUIRED. ALL NEW OPENINGS SHALL BE COORDINATED WITH THE ENGINEER. ALL PENETRATIONS OF THE BUILDING WALLS, CEILING AND FLOORS, THE CONTRACTOR SHALL SEAL WITH QUALITY CAULK, FIRE RATED AND WATERTIGHT, SUBMITTED FOR APPROVAL BY THE OWNER.
2. TRASH REMOVAL: CONTRACTOR SHALL REMOVE ALL TRASH CREATED BY HIMSELF OR HIS SUBCONTRACTORS DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO REMOVE TRASH CREATED BY OTHER SUBCONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. PROMPTLY CLEAN-UP ALL SOILING, DEBRIS AND OTHER UNSIGHTLY OR HAZARDOUS CONDITIONS, CAUSED BY WORK OR DELIVERIES UNDER THIS CONTRACT, FROM THE BUILDING GROUNDS, ENTRIES, CORRIDORS, STAIRWAYS, ELEVATORS OR OTHER PUBLIC AREAS. ALL SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.
3. SIGNAGE: CONTRACTOR SHALL MAINTAIN SECURITY AROUND PERIMETER OF CONSTRUCTION SITE DURING ALL HOURS BY INSTALLING A TEMPORARY RIBBON FOR INTERIOR WORK TO IDENTIFY CONSTRUCTION AREAS AS REQUIRED. SIGNAGE SHALL BE POSTED WITH NOTIFICATIONS OF "NO TRESPASSING" AND "CONSTRUCTION AREA".
4. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT PATCHING, AND REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. PATCH, PAINT, AND REPAIR ANY AREA DAMAGED TO THE SATISFACTION OF THE BUILDING OWNER.
6. THE EXACT LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE EXACT LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR THE MOUNTING AND SUPPORT OF ALL ITEMS REQUIRING THE SAME AS REQUIRED BY N.E.C.
8. TRENCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.
9. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
10. ALL BOLTS SHALL BE STAINLESS STEEL.
11. FOR UNDERGROUND RACEWAYS, PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR EARTH MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE RACEWAYS PER THE NEC.

ELECTRICAL EQUIPMENT

- 1. ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
2. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

- 1. CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.
2. PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.
3. FIRESTOPPING MATERIALS SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
4. PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH; OR 3M INC., MINNEAPOLIS, MN

FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH

- 1. CONTRACTOR SHALL CONDUCT A FAULT CURRENT CALCULATION ON ALL EQUIPMENT AND MARK AS REQUIRED PER THE N.E.C.
2. CONTRACTOR SHALL PROVIDE AN ARC-FLASH STUDY AND LABEL ALL EQUIPMENT AS REQUIRED PER THE N.E.C.

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- 1. ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.
2. ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.
3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.
5. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.
6. GROUND-FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SERVICE DISCONNECTS RATED 1000A OR MORE. THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH INSTRUCTIONS THAT SHALL BE PROVIDED WITH THE EQUIPMENT. A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
7. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 1/8-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
8. 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.
9. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
10. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
11. ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.

ELECTRICAL IDENTIFICATION

- 1. PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.
2. PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.
3. COLOR CODING OF CONDUCTORS SHALL BE PER NEC REQUIREMENTS.
4. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC"

CONDUCTORS AND CABLES

- 1. WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER, #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER, 600V, COLOR CODED, UNLESS NOTED ALUMINUM (AL). REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. PROVIDE 75°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER. UNLESS NOTED OTHERWISE ON DRAWINGS.
2. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY N.E.C. (NOT TO EXCEED 3%).
3. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.
4. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
5. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
6. CABLES - MC CABLE IS NOT PERMITTED.
7. PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.
8. PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO; OR BURNDY.

ALUMINUM CONDUCTOR REQUIREMENTS

- 1. ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.
2. THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.
3. ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.
4. ALL ALUMINUM (A) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION). THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
A. TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
C. TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
D. NECA / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS.
E. DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW U.L. GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

RACEWAY AND BOXES

- 1. RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S. AND COVERED 6" BELOW FINISHED GRADE TO BE PVC, SCHEDULE 40. PROVIDE WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER N.E.C. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUARTZITE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E. "POWER" "COMMUNICATIONS", "LIGHTING", ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
A. ABOVE GRADE: R.G.S.
B. BELOW GRADE: SCHEDULE 40 PVC (UNLESS NOTED OTHERWISE)
2. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
3. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. CONTRACTOR SHALL PROVIDE MANUFACTURED LONG RADIUS BENDS FOR ALL CONDUITS. 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 'BRITZ ZINC' OR 'GOLD GALV'.
4. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
5. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.
6. PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
7. PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
8. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
9. PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY, FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY, ADALET-PLM.

SAFETY SWITCHES

- 1. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS AND/OR RISER DIAGRAM. PROVIDE NEMA ENCLOSURE AS REQUIRED BY EXPOSURE TYPE. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

FUSES

- 1. FUSES SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE N.E.C.
2. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.

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GPD GROUP, INC.
LIC. # - 30920
529 South Main Street, Suite 2531
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330.572.2100 Fax 330.572.2101
TESLA
3100 DREX CREEK RD
PALO ALTO, CA 94304
(650) 991-0009

Table with 3 columns: REV, DATE, DESCRIPTION. Contains revision history for the document.

STEVEN P. SCHAUB
LICENSE No. 75200
Professional Engineer
No 75207
STATE OF FLORIDA
02/16/23

7171 N. DAVIS HWY,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504
ELECTRICAL GENERAL NOTES

Table with 2 columns: ISSUED FOR, PERMIT, BID, CONSTRUCTION, RECORD. Values are xxx.

Table with 2 columns: INSTALL MANAGER, DESIGNER. Values are DAVID HERNANDEZ, EH.

JOB NO.
2020141.81

EN-1

FEEDER/CIRCUIT SCHEDULE	
NO	CONFIGURATION
1	(5) SETS - EACH IN 4" CONDUIT (3) 600 MCM AI (1) 600 MCM AI NEUT
2	(2) SETS - EACH IN 4" CONDUIT (3) 500 MCM AI (1) 500 MCM AI NEUT (1) #1 AWG Cu GND OR #2/0 AWG AI GND
3	(1) SET - EACH IN 4" CONDUIT (4) 350 MCM AI (TWO +, TWO -) (1) #1 AWG Cu GND OR #2/0 AWG AI GND (1) 1000V, CLASS 1, COMM CABLE
4	FACTORY INSTALLED WIRING
5	OUTDOOR RATED/SHIELDED CAT5e OR CAT6 COMMUNICATION CABLE IN 1" CONDUIT.
6	(2) SETS - EACH IN 3" CONDUIT. (2) 600 MCM AI (ONE +, ONE -) (1) #3/0 AWG AI DC MID (1) #1/0 AWG Cu GND (1) #3/0 AWG AI DC MID DISC. 36" LONG IN EA. CABINET, NOT ROUTED IN CONDUIT

NOTE:
ALL AC CONDUCTORS SHALL BE RATED @ 600 VOLTS.
ALL DC CONDUCTORS SHALL BE RATED @ 1000 VOLTS.

REV.	DATE	DESCRIPTION
A	07.14.21	ISSUED FOR 80% REVIEW
B	01.28.22	ISSUED FOR 80% REVIEW
C	02.10.22	ISSUED FOR 90% REVIEW
D	03.09.22	ISSUED FOR 90% REVIEW
E	08.11.22	ISSUED FOR 90% REVIEW
F	08.17.22	SIGNED AND SEALED
1	10.10.22	REVISED PER COMMENTS
2	12.16.22	REVISED PER COMMENTS
3	02.02.23	REVISED PER COMMENTS

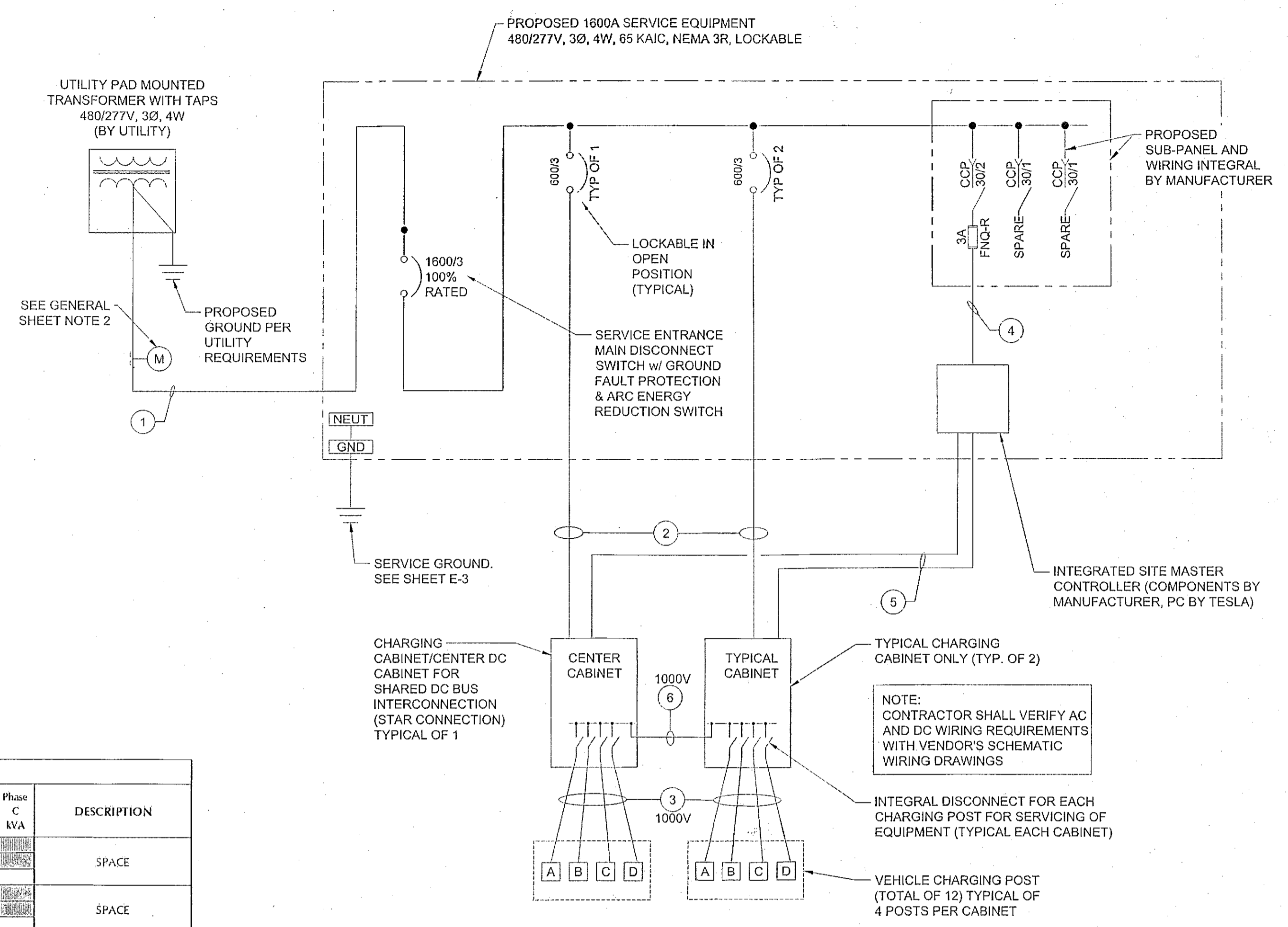
STEVEN P. SCHAUB
LICENSE No. 75207
FLORIDA
PROFESSIONAL ENGINEER
02/16/23

7171 N. DAVIS HWY,
UNIT 650
(TESLA STATION)
PENSACOLA, FL 32504
**ONE-LINE DIAGRAM
& PANEL SCHEDULE**

ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION RECORD	XXX
INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

E-2



PANEL 'MDP'									
DESCRIPTION	Phase A kVA	Phase B kVA	Phase C kVA	CKT. BKR / Poles	A	B	C	DESCRIPTION	
CHARGING CABINET #1	129.00	129.00	129.00	600/3	1			SPACE	
CHARGING CABINET #2	129.00	129.00	129.00	600/3	7			SPACE	
CHARGING CABINET #3	129.00	129.00	129.00	600/3	13			SPACE	
SPACE	0.00	0.00	0.00		19			SPACE	
SPACE	0.00	0.00	0.00		25			SPACE	
SPACE	0.00	0.00	0.00		27			SPACE	
SPACE	0.00	0.00	0.00		31			SPACE	
MASTER CONTROLLER	0.10	0.10	0.00	30/2	37			SPACE	
SPARE				30/1	39			SPACE	
	387.10	387.10	387.00		41				

CONNECTED
kVA 387.10 387.10 387.00
AMPS 1397.47 1397.47 1397.11
TOTAL kVA 1161.20
TOTAL AMPS 1396.71

1600/3
100% RATED
To UTILITY XFER TOTAL kVA 1451.50
TOTAL AMPS 1745.00
***125% CONT. LOAD CALC.

VOLTAGE 480 V/ 277 PHASE 3 No OF WIRES 4 NEMA 3R ENCLOSURE
MAIN ✓ C/B 3 POLES LUGS BUS 1600 AMPS 65 KAIC
SERVICE ENTRANCE RATED SPD ISOLATED GROUNDED BUS SURFACE
200% RATED NEUTRAL FULLY RATED ✓ FLUSH

***THE SUM OF THE TOTAL CONNECTED LOADS (NON-CONTINUOUS LOAD PLUS THE CONTINUOUS LOAD) TERMINATE IN AN OVERCURRENT DEVICE WHERE BOTH THE OVERCURRENT DEVICE AND ITS ASSEMBLY ARE LISTED FOR OPERATION AT 100% OF THEIR RATING

- PANEL BOARD NOTES**
- CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE TYPED PANEL DIRECTORY MOUNTED PER MANUFACTURERS RECOMMENDATIONS WITH SERVICE EQUIPMENT.
 - OCPP FOR CHARGING CABINETS ARE CALCULATED AS FOLLOWS: 465A AC INPUT TO CABINET x 1.25 = 581.25A ==> 600A BRANCH BREAKER REQUIRED
 - CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO DETERMINE MAXIMUM SHORT CIRCUIT AMPS (SCA), AND PROVIDE CALCULATIONS IN ORDER TO PROVIDE PROPERLY RATED EQUIPMENT. PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER NEC 110.16 AND LOCAL JURISDICTION REQUIREMENTS

TESLA V3 CHARGING CABINET & POST ELECTRICAL SPECS							
CHARGE POST MODEL	AC INPUT VOLTAGE TO CABINET	kVA INPUT TO CABINET	AC INPUT CURRENT TO CABINET	DC OUTPUT VOLTAGE TO CHARGE POST	DC OUTPUT CURRENT TO CHARGE POST	DC SHARED BUS CURRENT	SHORT CIRCUIT CURRENT RATING
V3	380V-480V	387kVA	465A	0V - 500V	350A	640A	85 KAIC

BREAKER SETTINGS								
BREAKER USE	BREAKER SIZE	I (A)	I (s) @ 6s	I _{sc} (kA)	I _{sc} (s)	I (kA)	I ₂	I ₂ (s)
MCB	1600A	1.0(1600A)	4	1.5	0.2(I ² T OFF)	15	J	0.4(I ² T OFF)
V3 BRANCH CIRCUIT	600A	X	X	X	X	2	X	X

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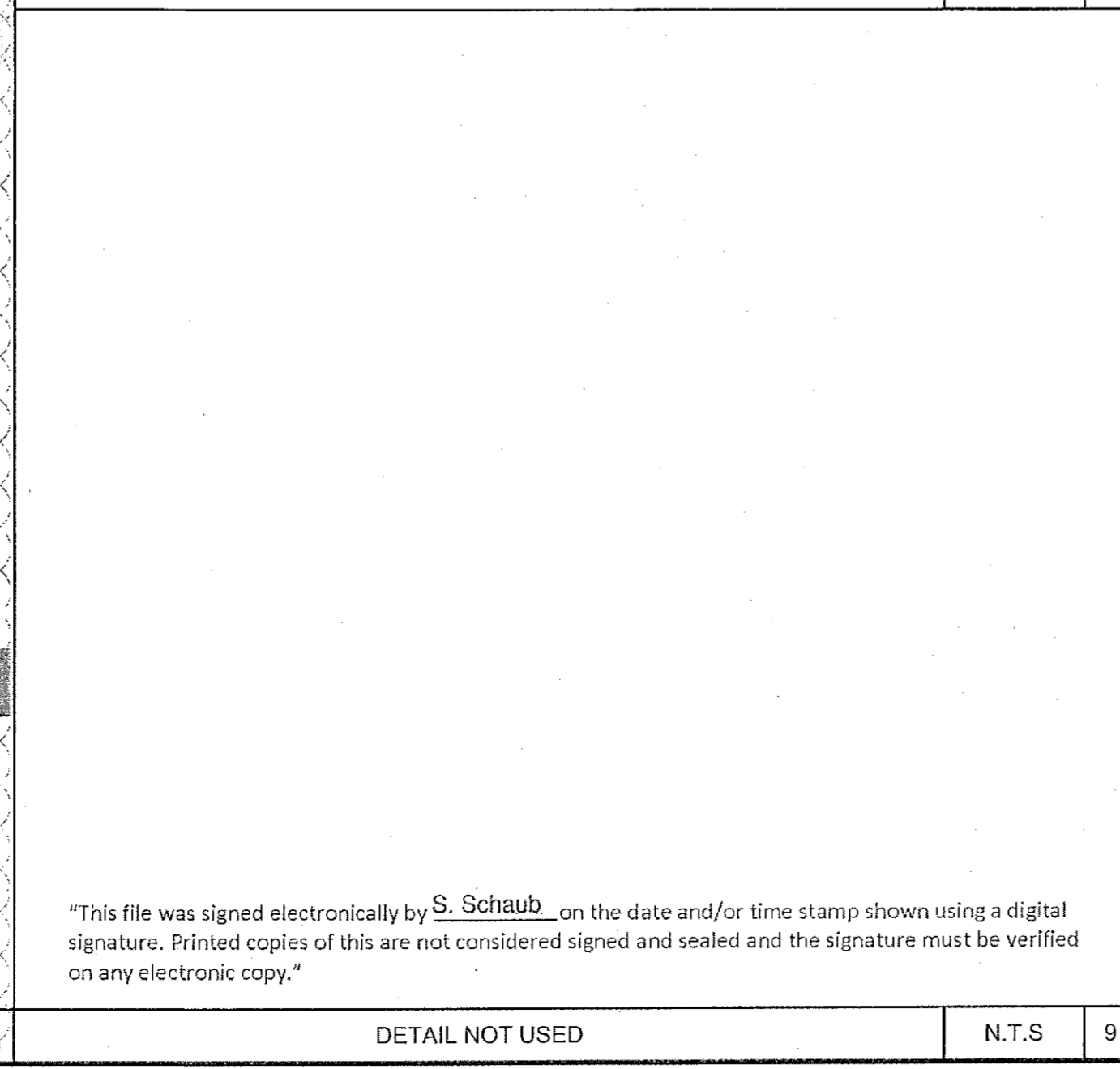
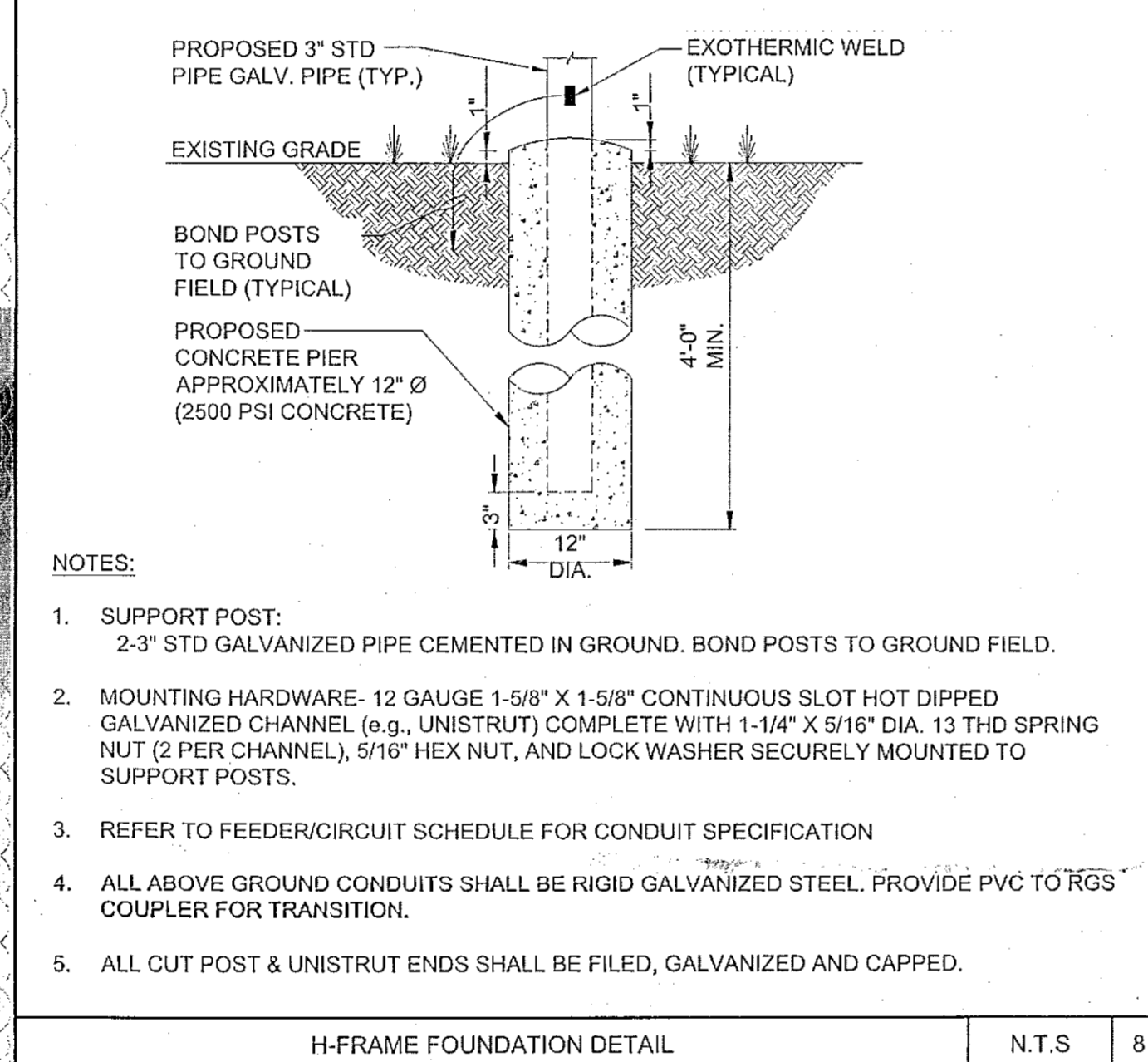
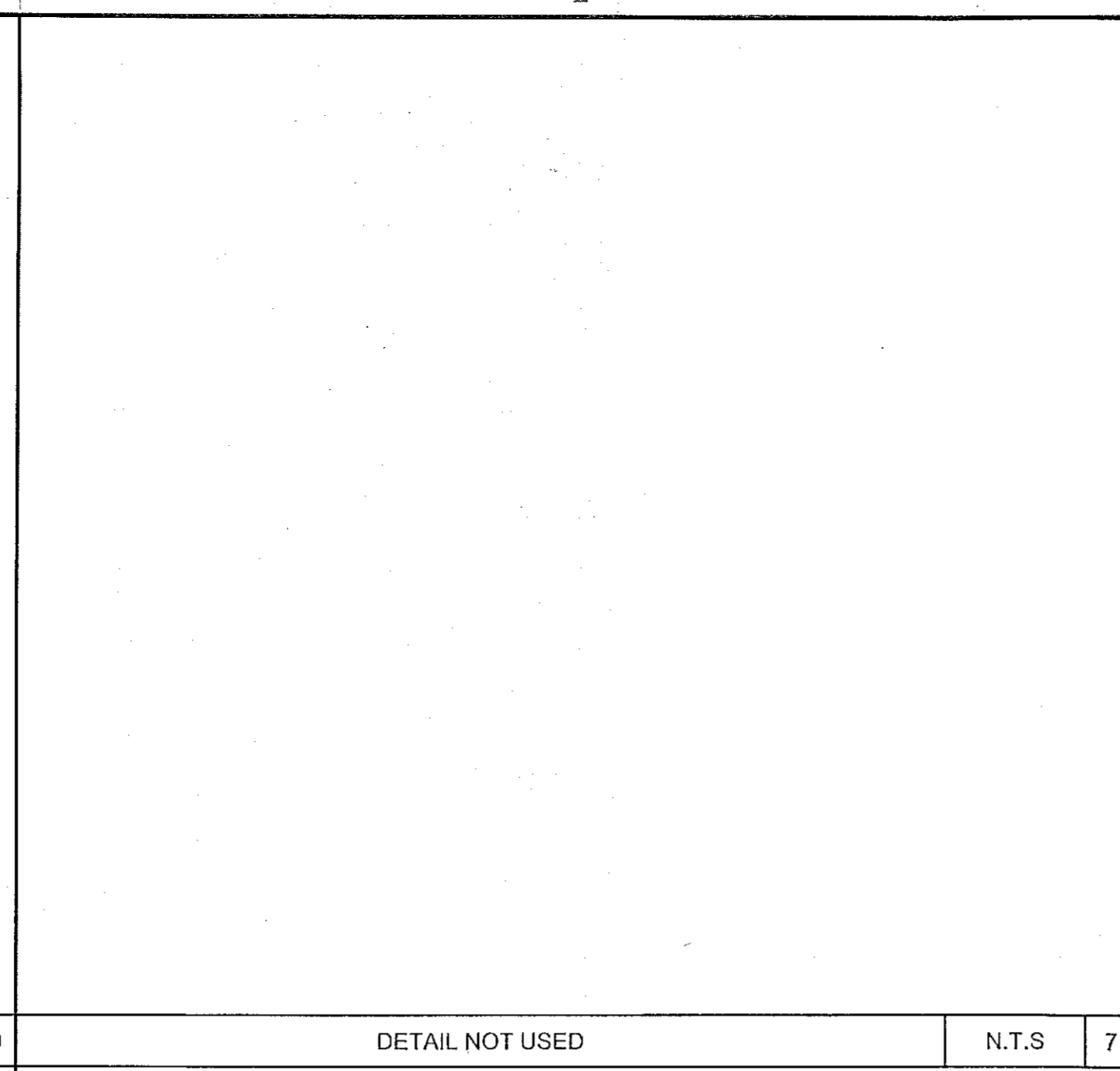
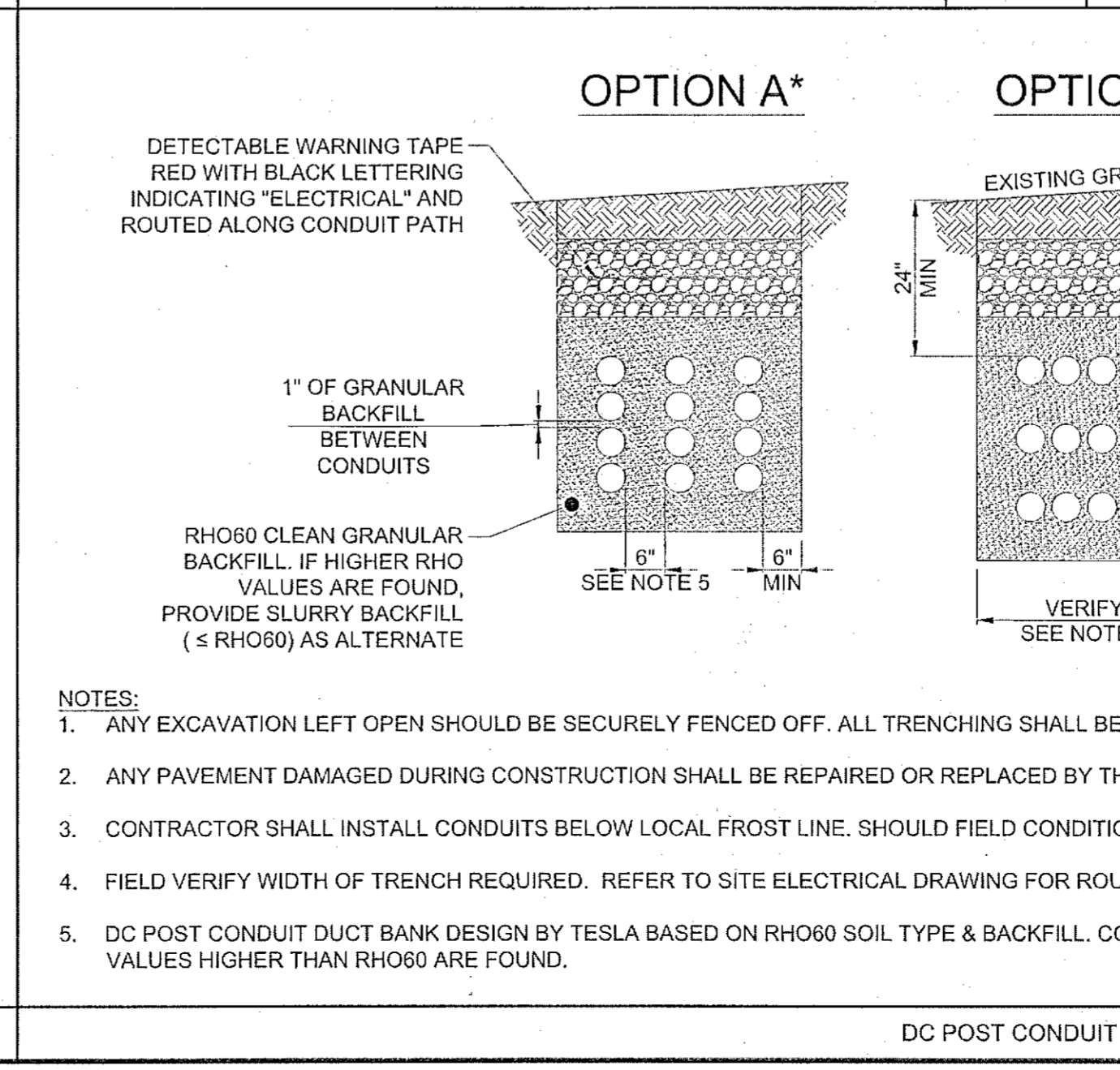
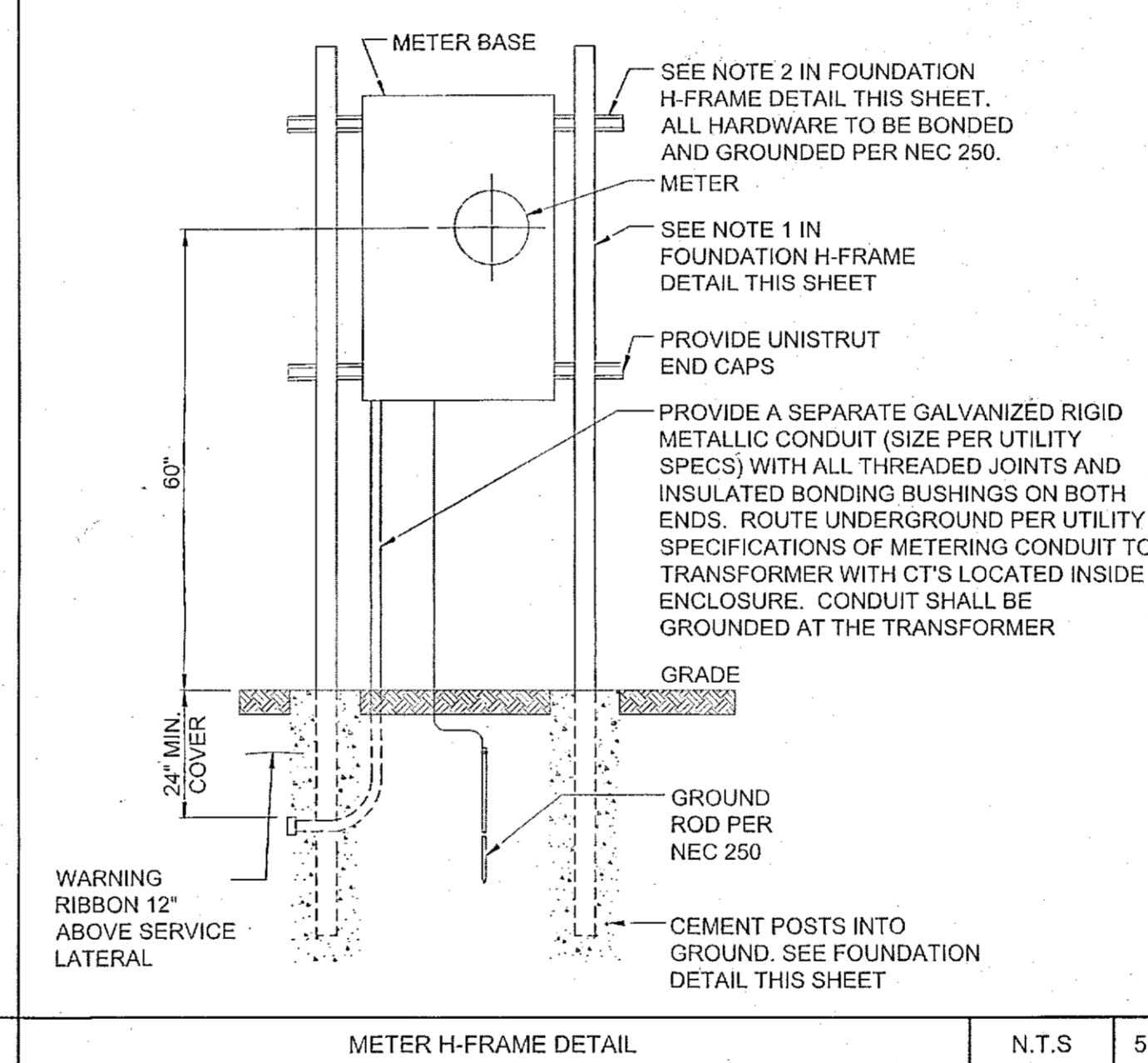
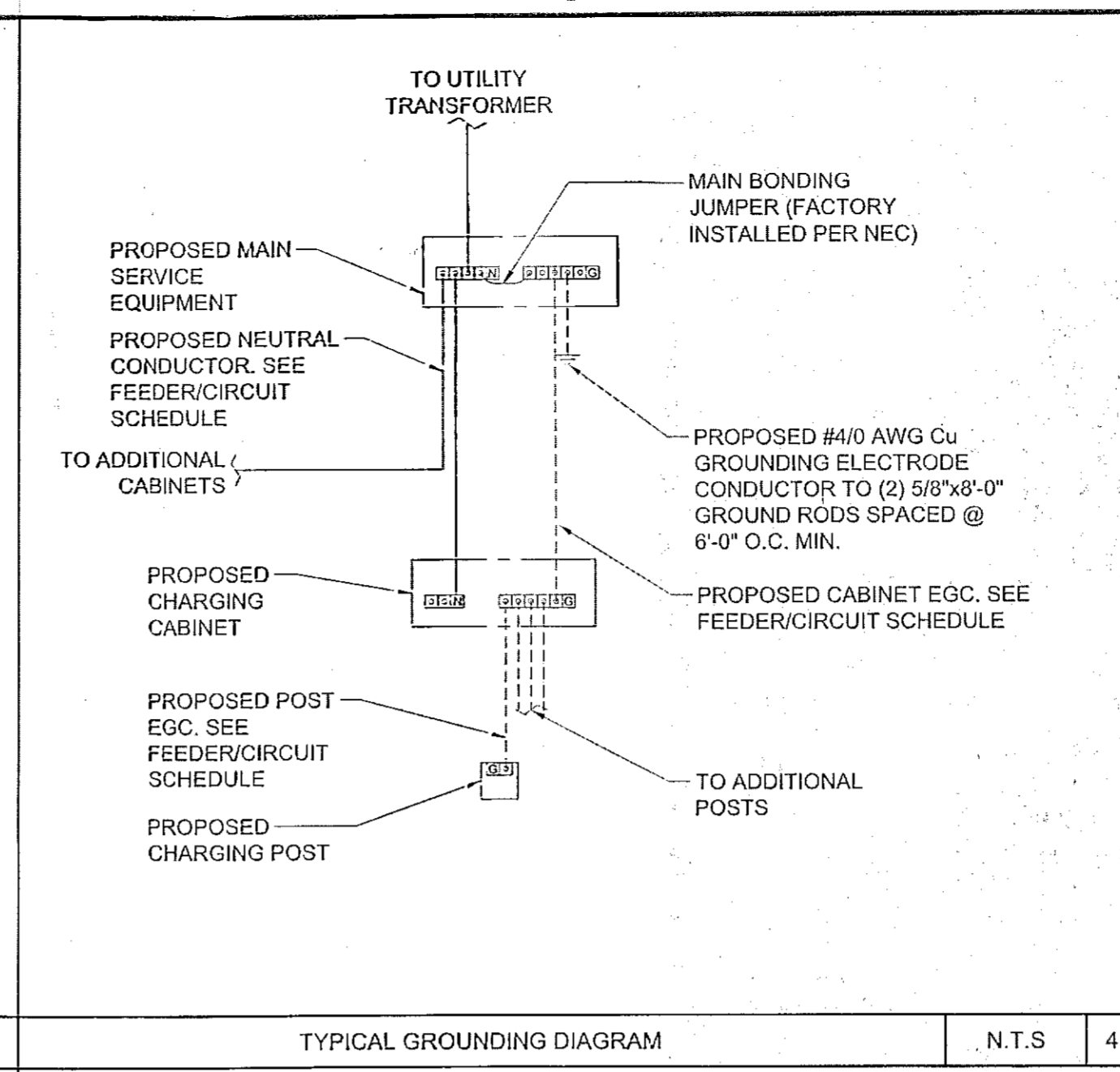
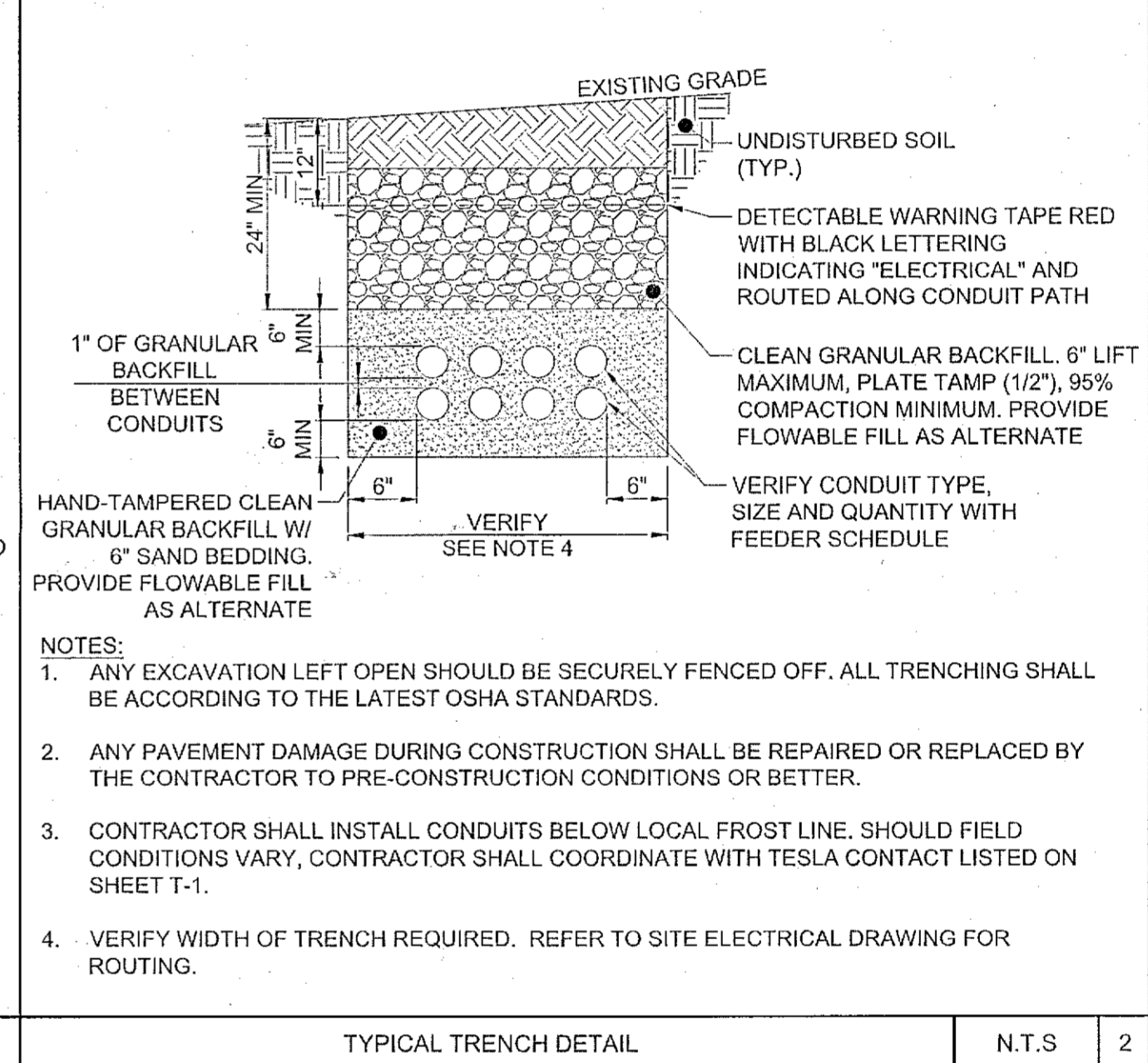
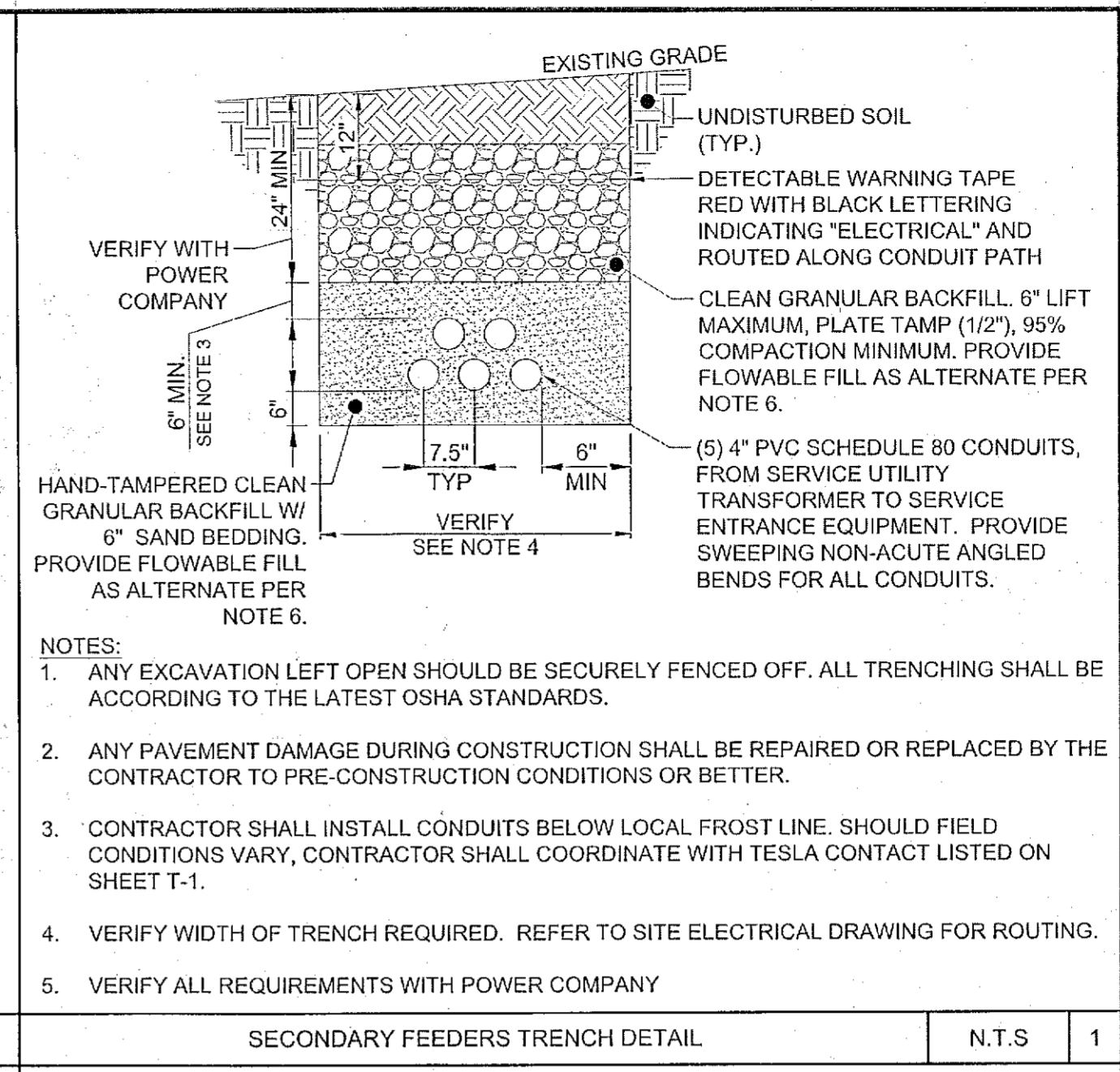
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**ELECTRICAL
DETAILS**

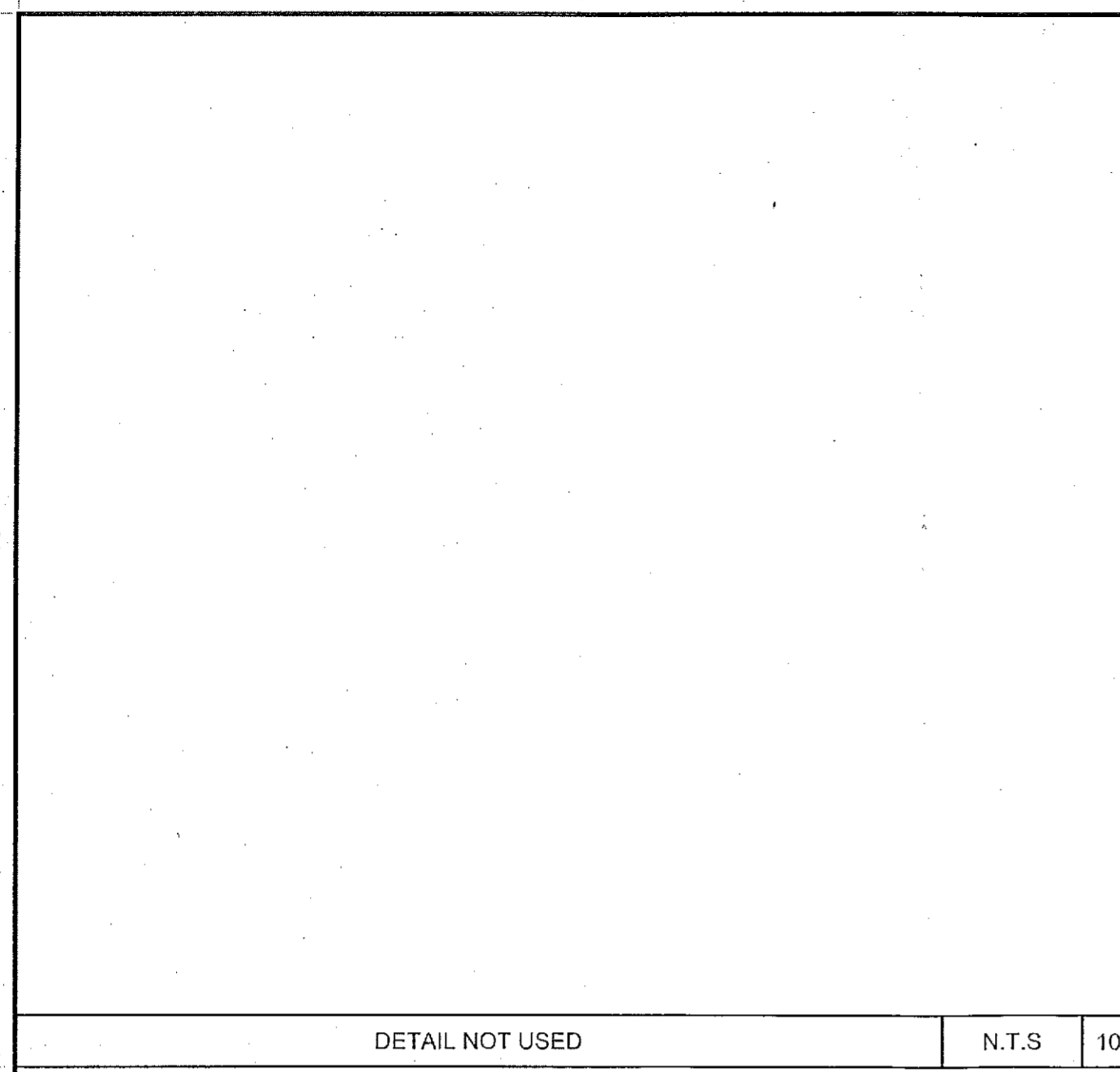
ISSUED FOR:	
PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX
INSTALL MANAGER	DESIGNER
DAVID HERNANDEZ	EH

JOB NO.
2020141.81

E-3



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Rhino A-Tag™ Pavement Markers

Protect cables and pipelines under streets and sidewalks

A-Tag markers are embedded into concrete or asphalt. These brightly colored, UV stable markers are slightly recessed, so even snowplows will not destroy them.

Durable
The warning message is molded right into the tag and cannot be removed.

UV Stable
The A-Tag is UV stabilized and fade resistant, even after years of outdoor exposure.

Easy Installation
New Construction Tag: Simply place into soft concrete or asphalt and push down so it is slightly recessed.
Retrofit Tag: Drill a hole with the carbide tipped A-Tag drill bit, then glue the A-Tag in place.

Applications
Reduce the Need for Paint: When A-Tags are installed, locators will only need to use a small amount of paint to verify the location of the pipeline/cable. This reduces "graffiti" complaints and speeds the locate process in the future.
Patch Identification: A-Tags can be installed in street and sidewalk patches, permanently identifying the company doing the work.

Identify Buried Valves, Splices, Etc. Mark anything from a gas valve to a buried splice; the only limit is your imagination.

SCAN FOR A-TAG INFORMATION

Patent #5,988,006

42

A-TAG PAVEMENT MARKER DETAIL	N.T.S	11
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