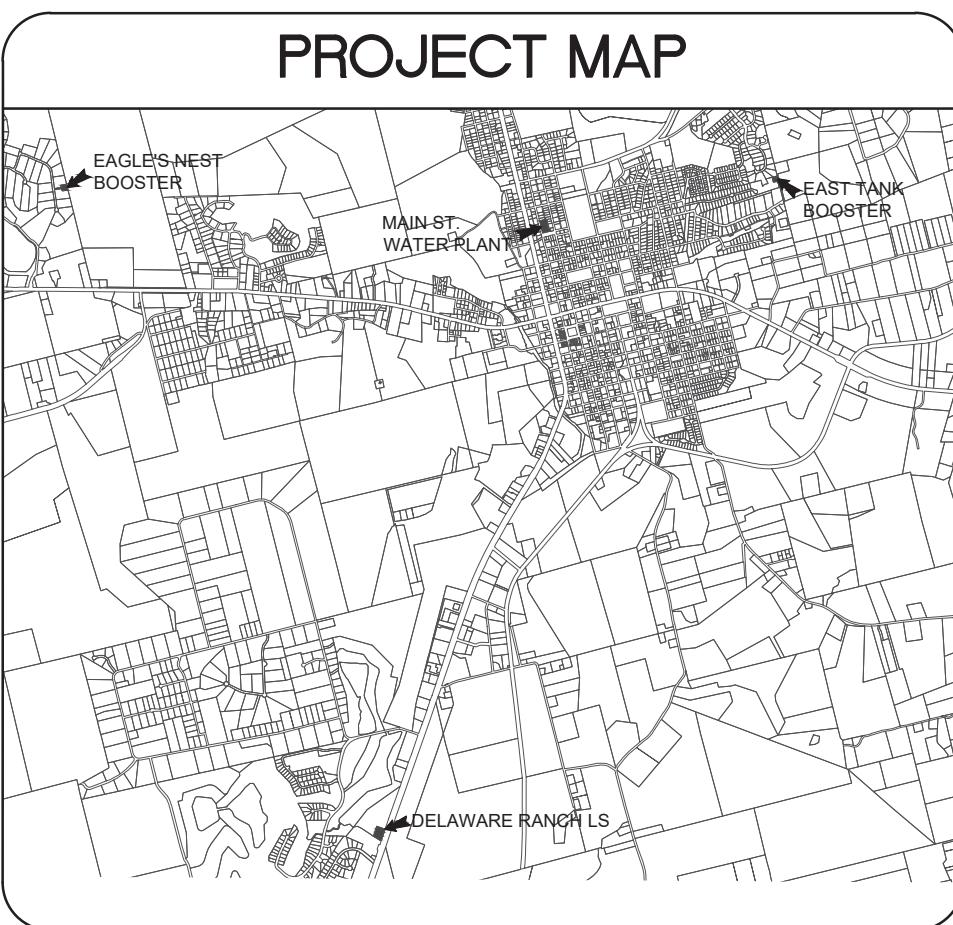
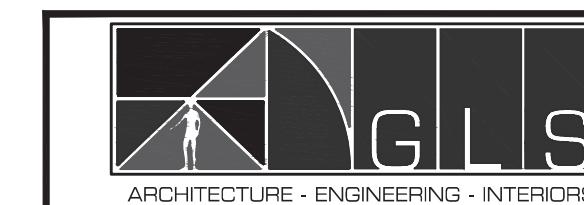


CONSTRUCTION PLANS
FOR
CITY OF BURNET GENERATORS
CITY OF BURNET
BURNET, TEXAS
PID: CIPWT - 2025A



DRAWING INDEX

NO.	TITLE
TS	TITLE SHEET
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E5	EAGLE'S NEST BOOSTER
E6	EAST TANK BOOSTER
E7	MAIN ST. WATER PLANT



1609 S. CHESTNUT ST. STE. 202 - LUFKIN, TEXAS 75901 - (936) 637-4900
4077 CROSS PARK DR. STE. 100 - BRYAN, TEXAS 77802 - (979) 776-9700
455 RICE ROAD STE. 107 - TYLER, TEXAS 75701 - (903) 581-3805

DATE	DRAWN BY:	APVD BY:	SCALE	JOB NUMBER
2/4/26	JRF	JRF	N.T.S.	613020
City of Burnet Generators				SHEET NO.
City of Burnet				
Burnet, TX				
Title Sheet				TS
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TBPE FIRM REGISTRATION #413 - TBPLS FIRM REGISTRATION #10110900 - TBPLS FIRM REGISTRATION #10110901				

- ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF NEC AND NESC CRITERIA.
- ELECTRICAL CONTRACTOR TO SUPPLY CUT SHEETS FOR PROPOSED CONSTRUCTION FOR ACTUAL EQUIPMENT USED AND SUBMIT TO THE ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DELIVERY PROVIDER PRIOR TO CONSTRUCTION.
- ELECTRICAL DELIVERY PROVIDER MAY REQUIRE ADDITIONAL EQUIPMENT THAN SHOWN ON CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY EXACT SERVICE REQUIREMENTS FROM ELECTRICAL DELIVERY PROVIDER AND SHALL FURNISH AND INSTALL AS REQUIRED.
- CAUTION!! EXACT LOCATIONS OF EXISTING UTILITIES ARE UNKNOWN. UTILITY LINES AND PIPELINES MAY BE ENCOUNTERED THROUGHOUT THE PROJECT. EXACT LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND PIPELINES, WHERE SHOWN ON THE PLANS OR NOT, SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ANY DAMAGE AND REPAIR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WIRE MUST BE STRANDED AND MIN. 12-GAUGE GROUNDED COPPER WIRING INSTALLED IN CONDUIT AS NOTED IN SPECIFICATION 16050.
- FIXTURES, RECEPTACLES, EQUIPMENT, ETC., WILL BE WIRED TO CIRCUITS AS SHOWN ON DRAWINGS. PROPOSED MODIFICATIONS TO THE DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- WIRE SIZES SHOWN ARE BASED ON ESTIMATED LENGTHS. VERIFY THAT THE VOLTAGE DROP DOES NOT EXCEED 3% PER NEC-2011/210.19 (A)(1), FPN. NO. 4. AMPACITY OF MULTIPLE CONDUCTORS IN A SINGLE CONDUIT MUST ALSO BE DERATED PER NEC-2011/TABLE 310.15 (B)(2)(a).
- UNLESS OTHERWISE NOTED, DISCONNECTS, PANELS, MOTOR STARTERS, ETC., ARE DIAGRAMMATICALLY SHOWN ON THE PLANS TO CONVEY THE APPROXIMATE LOCATIONS FOR INSTALLATION. UNLESS SHOWN ON THE PLANS, REFER TO NOTES, LEGENDS, ADA REQUIREMENTS, ETC. FOR CORRECT MOUNTING HEIGHTS.
- REFER TO THE CIVIL DRAWINGS AND DEMOLITION DRAWINGS FOR PERTINENT INFORMATION RELATED TO THE PROJECT ELECTRICAL WORK.
- AUTOMATIC TRANSFER SWITCHES SHALL NOT BE SERVICE ENTRANCE RATED AND SHALL NOT BE EQUIPPED WITH A BY-PASS.

GROUNDING NOTES

A. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE SUBSURFACE SITE CONDITIONS AND BECOME FAMILIAR WITH THE REQUIREMENTS OF INSTALLING 3/4" X 10' COPPERCLAD STEEL GROUND RODS. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AS NECESSARY TO ACCOMPLISH THE FOLLOWING STEPS:

- 1) DRIVE THE GROUND RODS TO THE FULL 10' DEPTH. IF THE GROUND RODS CANNOT BE DRIVEN THEN THEY SHALL BE INSTALLED PER STEP 2.
- 2) BORE A 6" DIAMETER X 10' DEEP GROUND WELL BY WHATEVER MEANS NECESSARY. INSTALL 10' GROUND ROD (ONE 10' SECTION INTO CENTER OF WELL BACKFILL AND TAMP AROUND ROD WITH ERICO "GEM" COMPOUND TO WITHIN 24" OF GRADE. FINISH BACKFILL WITH SELECT TOPSOIL AFTER CONNECTION OF GROUNDING ELECTRODE CONDUCTOR(S).

GROUND GRID NOTES

GN1 INSTALL #3/0 AWG STRANDED BARE SOFT DRAWN COPPER (BSDC) WIRE 24" DEEP.

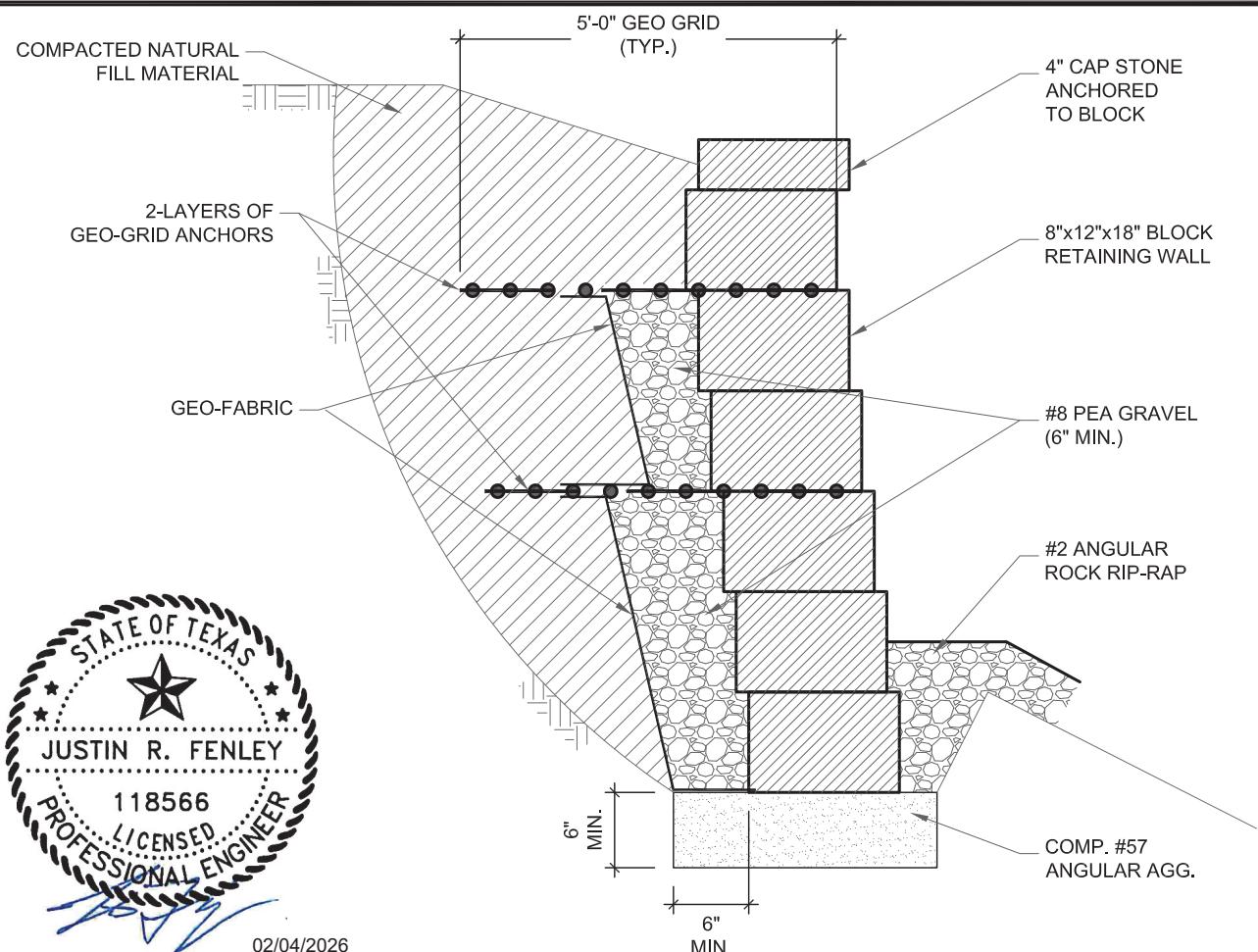
GN2 INSTALL 3/4" X 10' COPPERCLAD STEEL GROUND ROD.

GN3 INSTALL #1/0 AWG STRANDED BARE SOFT DRAWN COPPER (BSDC) WIRE AND BOND GROUND GRID TO REINFORCING STEEL BAR (#3 MINIMUM) IN CONCRETE STRUCTURE FOOTING (OR SLAB IF NO FOOTING).

GN4 MAKE ALL CONNECTIONS USING EXOTHERMIC WELDING (CADWELD) PROCESS.

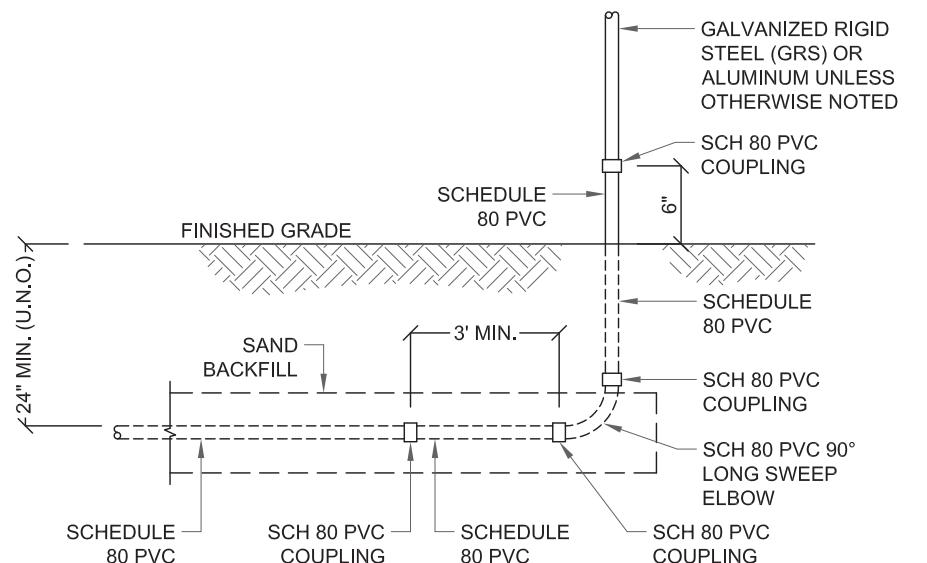
GN5 REINFORCING STEEL REBAR (#4 MINIMUM) IN CONCRETE STRUCTURE FOOTING (OR SLAB IF NO FOOTING).

GN6 INSTALL 3/4" SCHEDULE 40 PVC CONDUIT WITH (1) - #1/0 AWG BSDC BONDING CONDUCTOR BETWEEN ELECTRICAL EQUIPMENT AND GROUND GRID.



Keystone Block Scour Wall

N.T.S. 2



NOTE 1) ALL 90° ELBOWS AND STUB-UPS IN TRANSITION FROM UNDERGROUND TO 6" ABOVE GRADE SHALL BE SCHEDULE 80 PVC.

NOTE 2) ELECTRICAL METALLIC TUBING (EMT) SHALL NOT BE ALLOWED IN PROJECT.

NOTE 3) ALL CONDUIT INSTALLED BY THE CONTRACTOR THAT DOES NOT COMPLY WITH THE "TYPICAL FEEDER AND BRANCH DETAIL" SHALL BE REMOVED.

NOTE 4) WHERE REQUESTED BY ELECTRICAL DELIVERY PROVIDER, SERVICE CONDUIT/FITTINGS MAY BE OF ANOTHER MATERIAL.

NO.	DATE	REVISIONS

T.B.P.E.L.S. FIRM NO. F-413 T.B.P.E.L.S. FIRM NO. 10110900
T.B.A.E. FIRM NO. BR-351 T.B.A.E. FIRM NO. 10110901
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ARCHITECTURE - ENGINEERING - INTERIORS
LANDSCAPE - SURVEYING
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4077 CEDAR PARK, STE. 100 BRYAN, TEXAS 77803 (936) 276-9700
455 RIDGE ROAD, STE. 107 - 109 TYLER, TEXAS 75703 - (903) 581-3805

Electrical Notes & Detail			
City of Burnet	City of Burnet		
Burnet, TX			
01/27/26	DRAWN BY: JRF	APPROD BY: JRF	ISSUED: 01/27/26

JOB NUMBER
613020

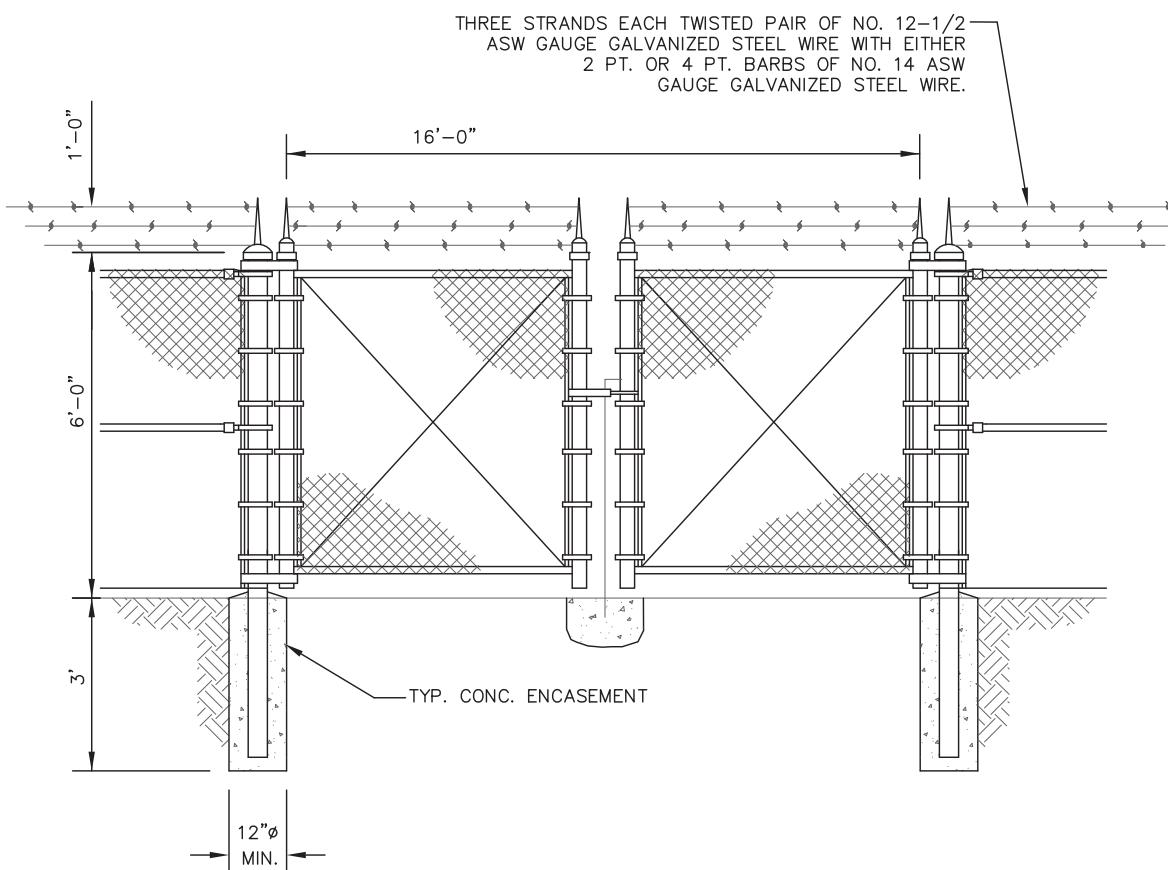
SHEET NO.



STATE OF TEXAS
JUSTIN R. FENLEY
118566
LICENSED
PROFESSIONAL ENGINEER
02/04/2026

T.B.P.E.L.S. FIRM NO. F-413 T.B.P.E.L.S. FIRM NO. 10110900
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NO. DATE REVISIONS



Fence Gate Detail

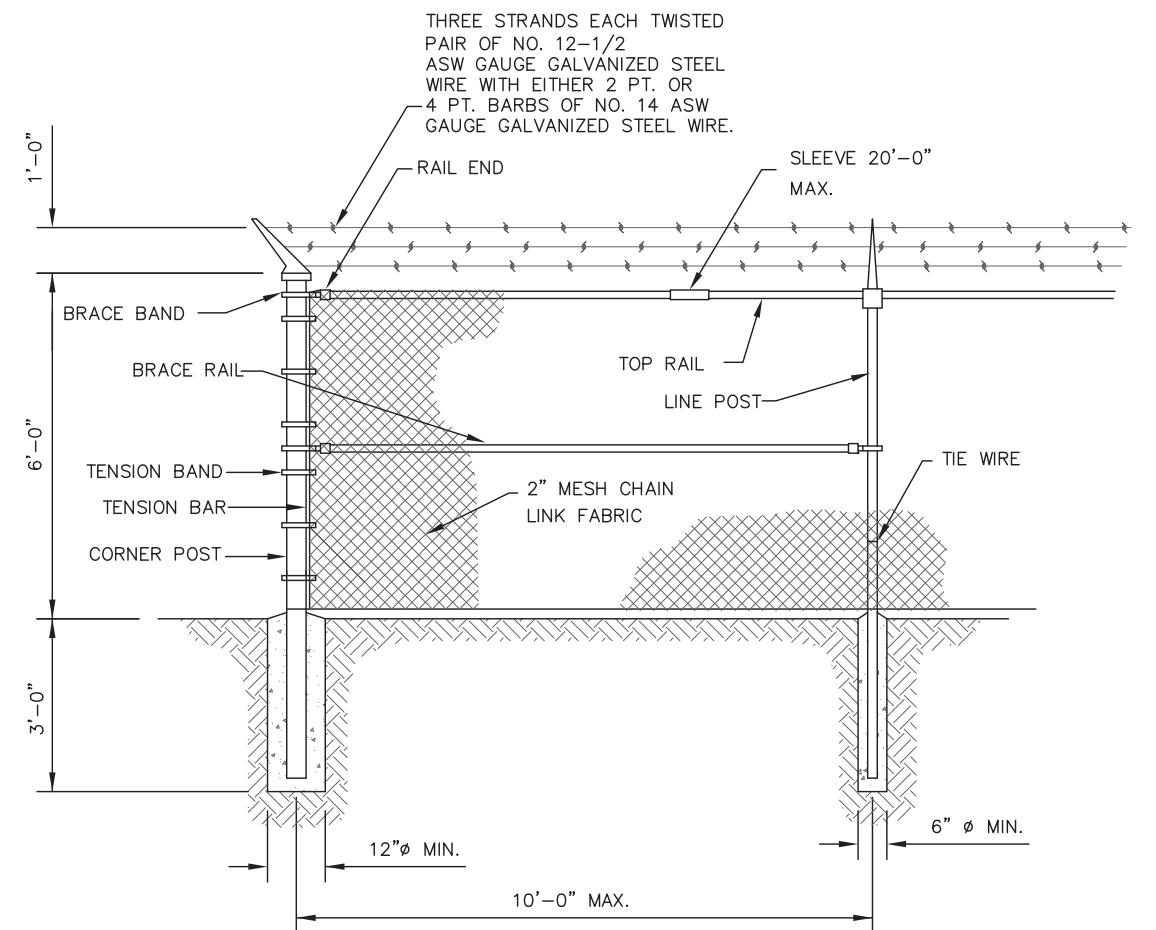
N.T.S.

2

Security Fence Detail

N.T.S.

1



City of Burnet Generators
Burnet, TX
Security Fence Details

DATE: 01/27/26 DRAWN BY: JRF APYD: JRF ISSUED: 01/27/26
JOB NUMBER: 613020 SHEET NO.

E3

ARCHITECTURE - ENGINEERING - INTERIORS
LANDSCAPE - SURVEYING



LANDSCAPE

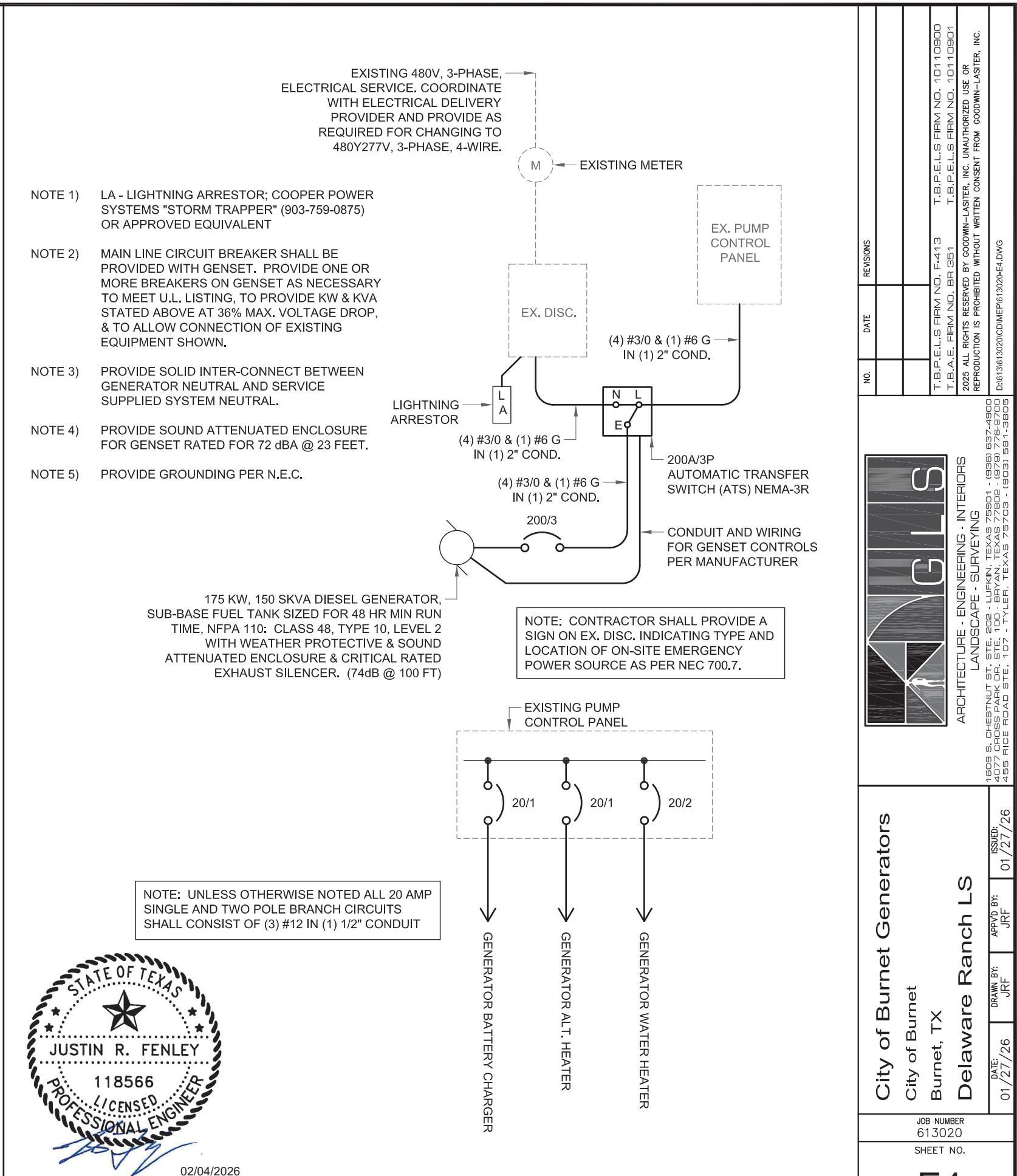
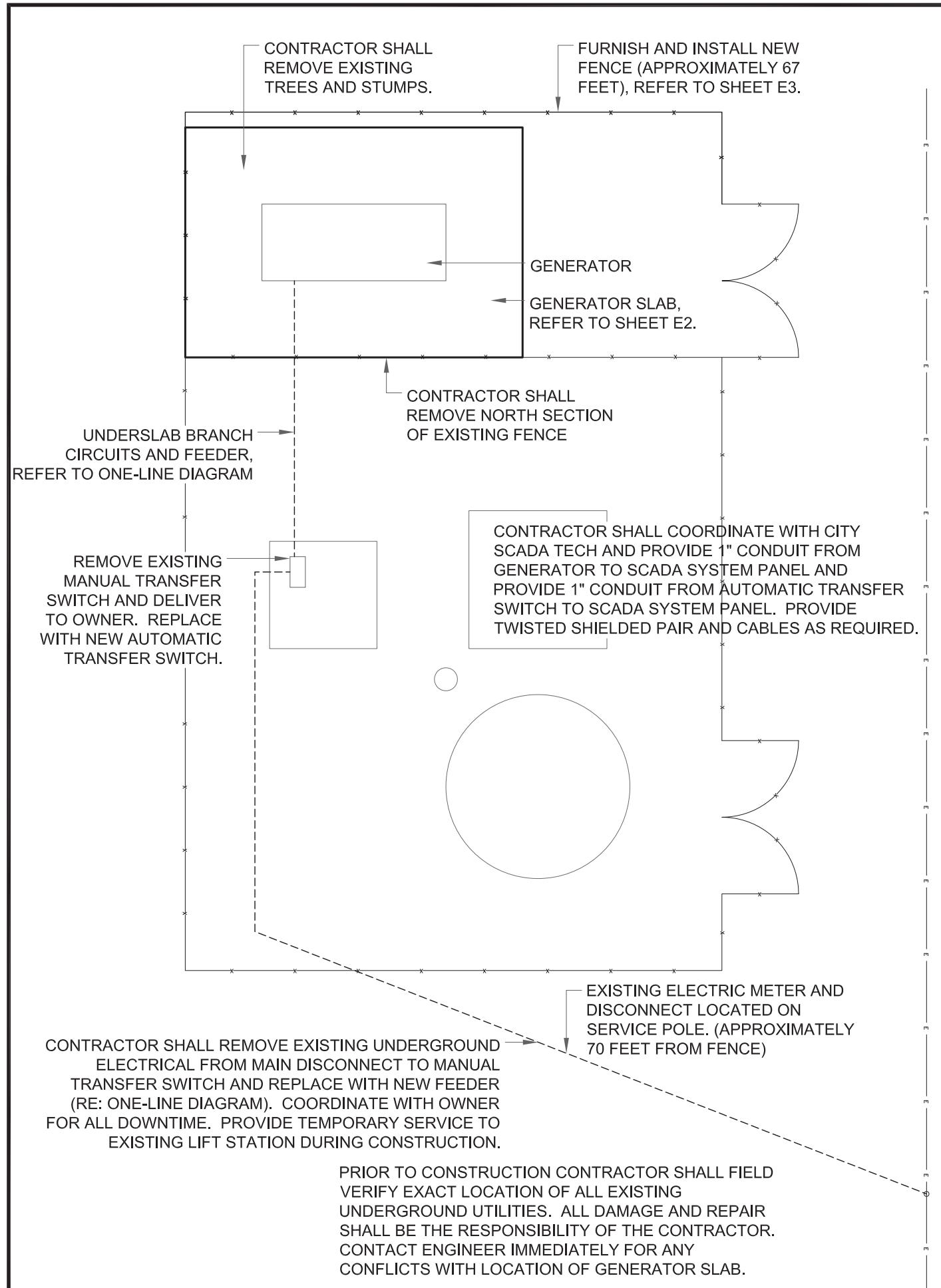
INTERIORS

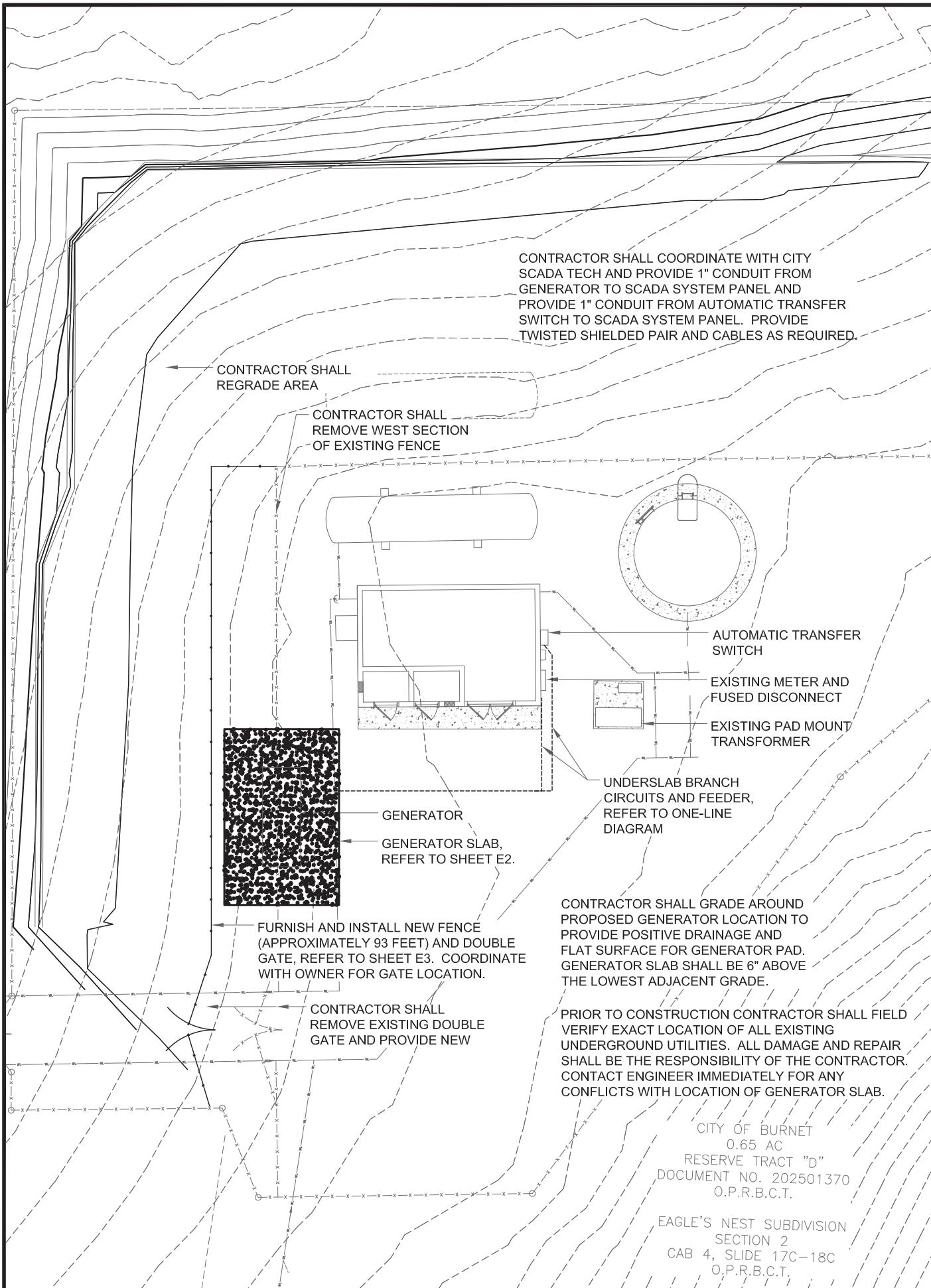
ARCHITECTURE

ENGINEERING

SURVEYING

LANDSCAPE





1"

= 20'

Eagle's Nest Booster Site Plan

2

One-Line Diagram

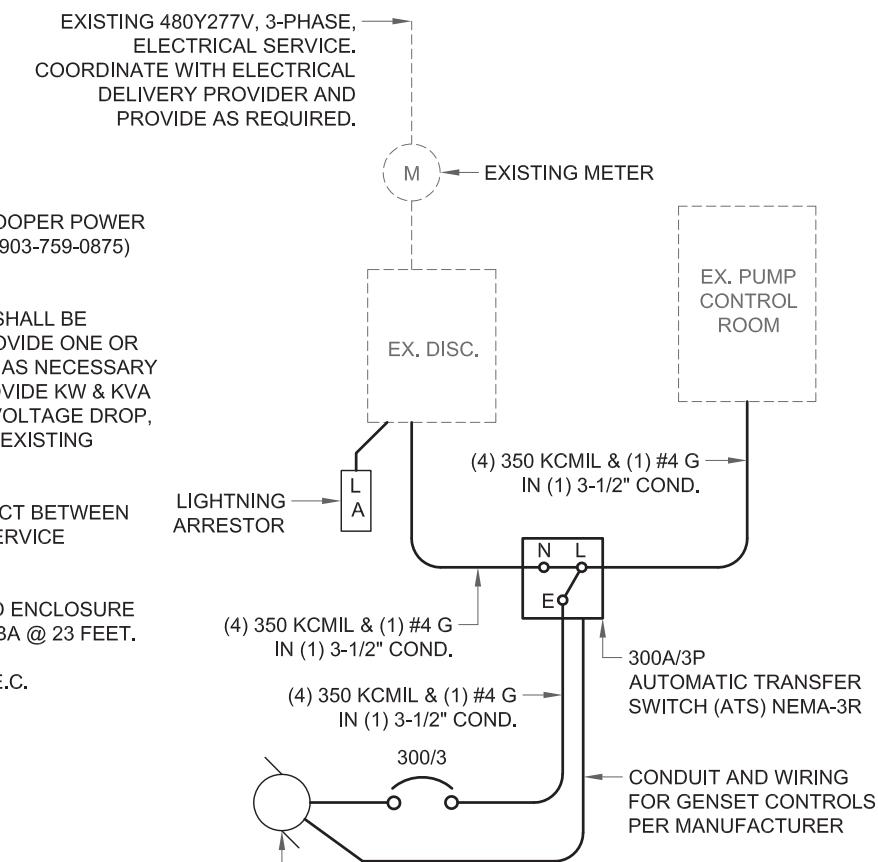
NOTE 1) LA - LIGHTNING ARRESTOR; COOPER POWER SYSTEMS "STORM TRAPPER" (903-759-0875) OR APPROVED EQUIVALENT

NOTE 2) MAIN LINE CIRCUIT BREAKER SHALL BE PROVIDED WITH GENSET. PROVIDE ONE OR MORE BREAKERS ON GENSET AS NECESSARY TO MEET U.L. LISTING, TO PROVIDE KW & KVA STATED ABOVE AT 36% MAX. VOLTAGE DROP, & TO ALLOW CONNECTION OF EXISTING EQUIPMENT SHOWN.

NOTE 3) PROVIDE SOLID INTER-CONNECT BETWEEN GENERATOR NEUTRAL AND SERVICE SUPPLIED SYSTEM NEUTRAL.

NOTE 4) PROVIDE SOUND ATTENUATED ENCLOSURE FOR GENSET RATED FOR 72 dBA @ 23 FEET.

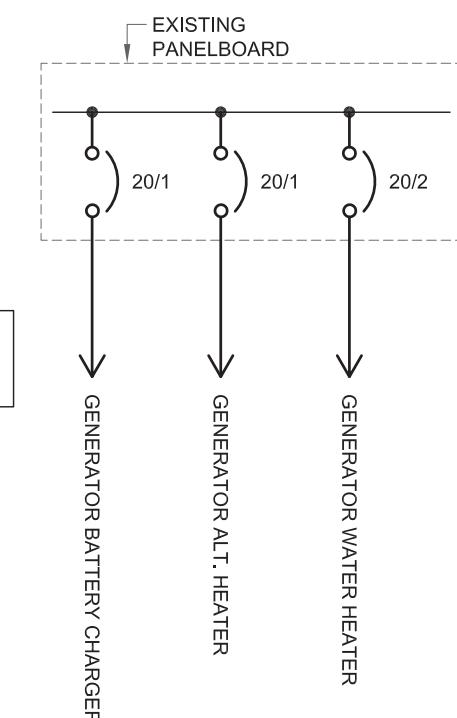
NOTE 5) PROVIDE GROUNDING PER N.E.C.



NOTE: UNLESS OTHERWISE NOTED ALL 20 AMP SINGLE AND TWO POLE BRANCH CIRCUITS SHALL CONSIST OF (3) #12 IN (1) 1/2" CONDUIT



02/04/2026



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LANDSCAPE - SURVEYING

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City of Burnet Generators
Burnet, TX
Eagle's Nest Booster

DATE: 01/27/26 DRAWN BY: JRF APVD BY: JRF ISSUED: 01/27/26
JOB NUMBER 613020
SHEET NO.

E5

N.T.S.

1

CIPWT: 2025A

