# ELECTRICAL SITE PLAN

SCALE: 1"=10'-0" 

## **LEGEND:**

#### PLAN SYMBOLS

ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.

CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.

CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.

> HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. HASH MARKS INDICATE NUMBER OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.

LEVEL TRANSDUCER

LIQUID LEVEL SWITCH

TEMPERATURE SWITCH

SEAL FAIL

GROUND ROD

**GROUND TEST WELL** 

#### **ABBREVIATIONS**

**AMPERES** ABOVE FINISHED GRADE AMPS INTERRUPTING CURRENT CONTROL PANEL CONTROL POWER TRANSFORMER FLORIDA POWER & LIGHT FULL VOLTAGE NON-REVERSING GND GROUND HORSEPOWER LIFT STATION CONTROL PANEL

MANUFACTURER SUPPLIED CABLE MOUNTED

NEUTRAL NATIONAL ELECTRICAL CODE

NUMBER NOT TO SCALE

SURGE PROTECTION DEVICE

STAINLESS STEEL SOLID STATE STARTER

**TYPICAL VOLT AMPERES** 

VARIABLE FREQUENCY DRIVE

WEATHERPROOF

PHASE

### **NOTES**

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.

2. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY

THE CONTRACTOR PRIOR TO SUBMITTING HIS BID. 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, 2020 FLORIDA BUILDING, 2020 NATIONAL FIRE PROTECTION ASSOCIATION, AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.

4. MINIMÛM WIRE SIŹE SHÂLL BE #12 A.W.G. FOR POWER CIRCUITS.

5. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

6. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. OR LOCAL CODES. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE.

7. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.

8. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/OWNER.

9. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.

10. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.

11. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF FPL.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.

13. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPE WRITTEN DIRECTORIES.

14. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

15. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT DIMENSIONS OF ALL EQUIPMENT.

16. SLANTED AND SHADED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES. EXISTING EQUIPMENT OR STRUCTURES ARE ALSO CALLED OUT WITH THE WORD "EXISTING" PRECEDING NON-SLANTED TEXT DENOTES NEW EQUIPMENT, STRUCTURES & WORK.

17. ALL CONTROL PANELS SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF ARTICLE 409 OF THE NATIONAL ELECTRICAL CODE.

> 10620 GRIFFIN ROAD, SUITE 202 COOPER CITY, FLORIDA 33328 PHONE: (954) 448-7930 C.O.A. NO. 6783 Stephen E. Bailey, P.E. Florida P.E. No. 42461





$\Lambda$	ADDENDUM NO. 6	03/09/22	SEB		
No.	REVISIONS	DATE	BY		

Kimley» Horn

600 NORTH PINE ISLAND ROAD, SUITE 450, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696

043138041 DATE MARCH 2022 SCALE AS SHOWN DESIGNED BY SEB

CHECKED BY SEB NORTH BAY VILLAGE

DRAWN BY

SOUTH TREASURE DRIVE PUMP STATION IMPROVEMENTS

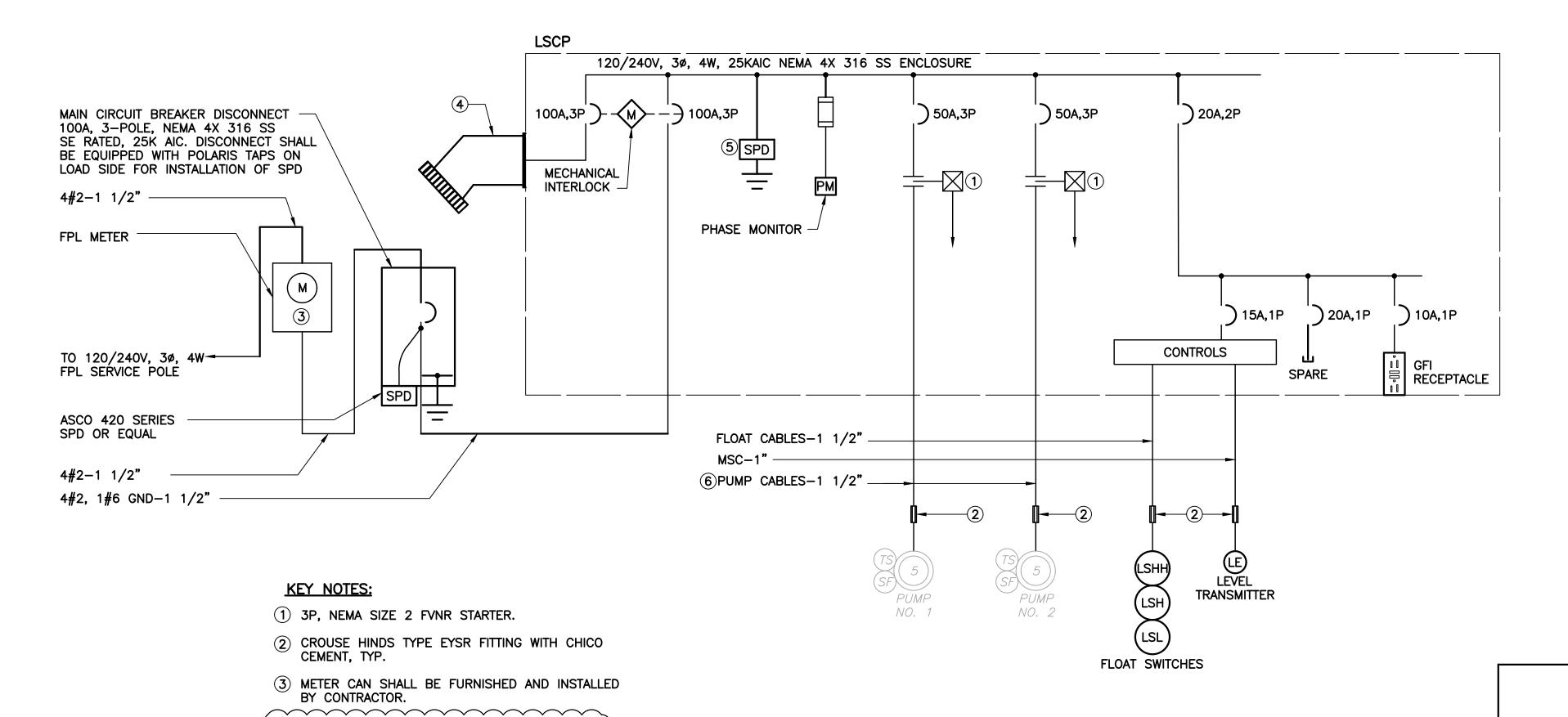
> PREPARED FOR NORTH BAY VILLAGE

STEPHEN E. BAILEY, P.E. FLORIDA LICENSE NUMBER 42461 FLORIDA | DATE: 03/09/22

LICENSED PROFESSIONAL

ELECTRICAL SITE PLAN, NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NUMBER



**GENERAL NOTES:** 

- A. EXISTING LIFT STATION SHALL REMAIN OPERATIONAL DURING THE DURATION OF THE WORK. PROVIDE STANDBY POWER, BYPASS PUMPING, AND TEMPORARY UTILITY POWER AS REQUIRED TO COMPLETE THE WORK.
- B. SUBMIT PLANNED SEQUENCE OF CONSTRUCTION TO ENGINEER PRIOR TO COMMENCING THE WORK.
- C. TRENCHING FOR RACEWAYS BETWEEN WET WELL AND EQUIPMENT RACK SHALL BE HAND-DUG. SAW CUT PAVED AREAS, AS REQUIRED.
- D. REPLACE EXISTING FLOAT SWITCHES.

# LOAD TABULATION

SERVICE VOLTAGE: 120/240V, 3ø, 4W

DESCRIPTIONLOADAMPACITY① EXISTING PUMPS<br/>MISCELLANEOUS2 @ 5 HP EACH<br/>1 KVA= 38.00 AMPS<br/>= 4.16 AMPSCONNECTED LOAD= 42.16 AMPS

② MINIMUM SERVICE ENTRANCE = 42.16 AMPS + (0.25)(19.00) = (46.91) AMPS

#### NOTES:

- ① AMPACITIES PER PUMP MFR. DATASHEETS.
- ② SERVICE ENTRANCE MINIMUM SIZE AS PER ARTICLE 230 OF THE NATIONAL ELECTRICAL CODE.
- 3 EXISTING PUMP IS KEEN K4RN SERIES PUMP.

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(4) GENERATOR RECEPTACLE. 100A RUSSELL STOLL

PUMPS.. CONTRACTOR TO CONFIRM REQUIRED CABLE LENGTH FROM PUMPS TO LSCP.

#JRSA1044FR (REVERSE SERVICE).

6 FURNISH NEW PUMP CABLES FOR EXISTING

5 ASCO 430 SERIES.

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043138041
DATE
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SOUTH TREASURE DRIVE PUMP STATION IMPROVEMENTS

SINGLE LINE DIAGRAM

DESIGNED BY SEB

DRAWN BY SJL

CHECKED BY SEB NORTH BAY VILLAGE

PREPARED FOR

NORTH BAY VILLAGE

STEPHEN E. BAILEY, P.E.

FLORIDA LICENSE NUMBER

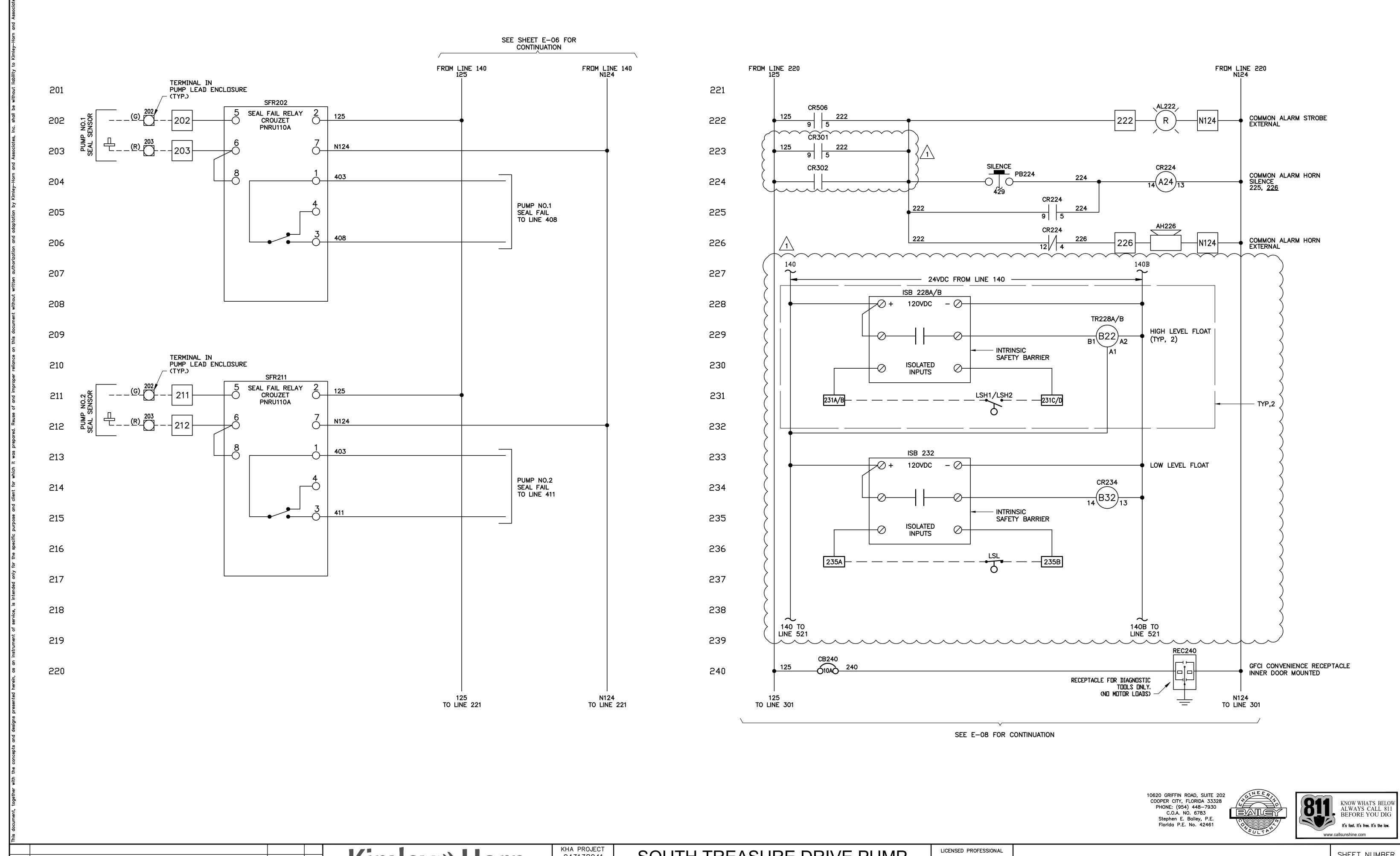
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SINGLE LINE DIAGRAM

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KHA PROJECT 043138041 MARCH 2022 SCALE AS SHOWN DESIGNED BY SEE DRAWN BY

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SOUTH TREASURE DRIVE PUMP STATION IMPROVEMENTS PREPARED FOR

NORTH BAY VILLAGE FLORIDA | DATE: 03/09/22

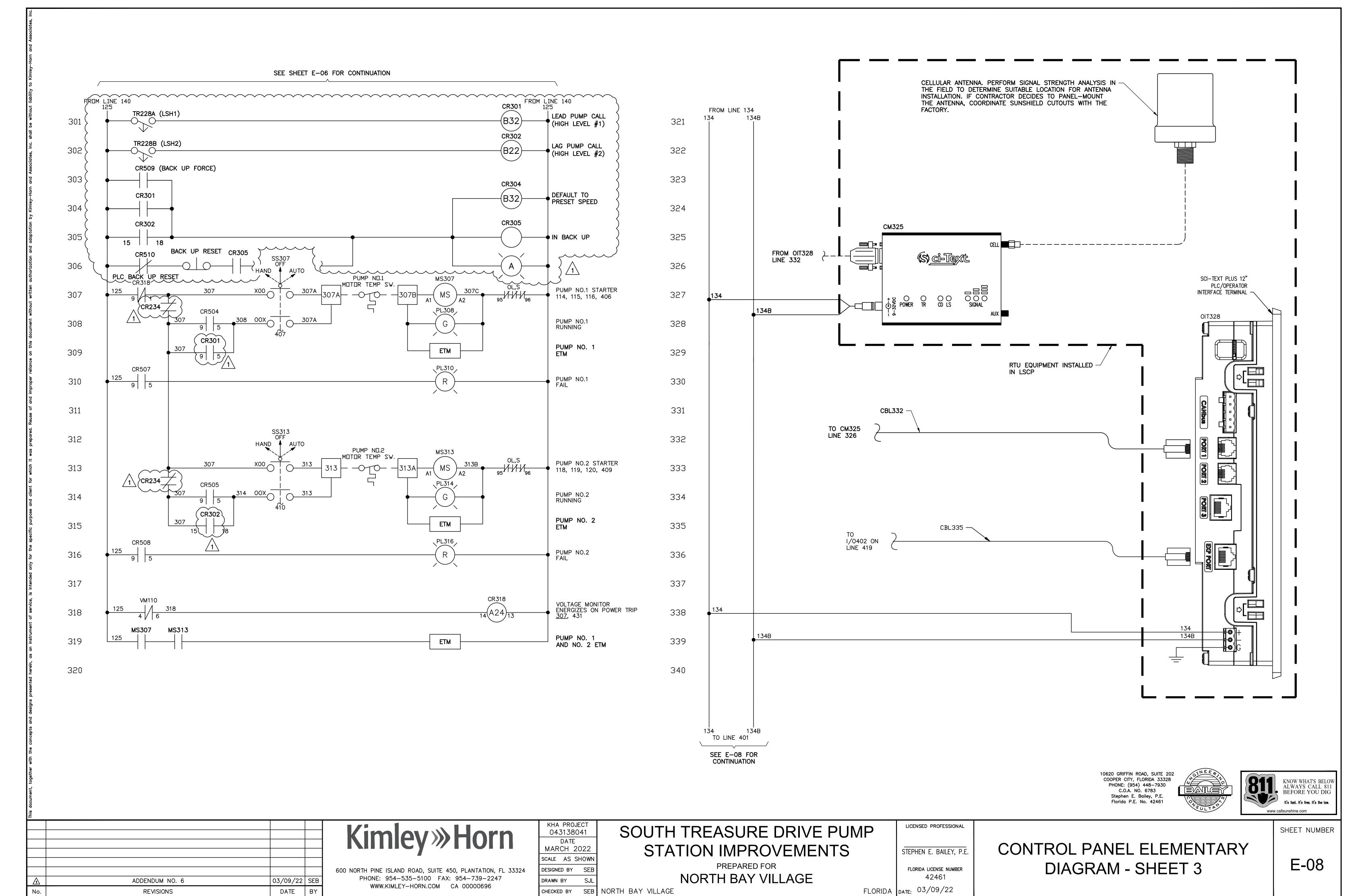
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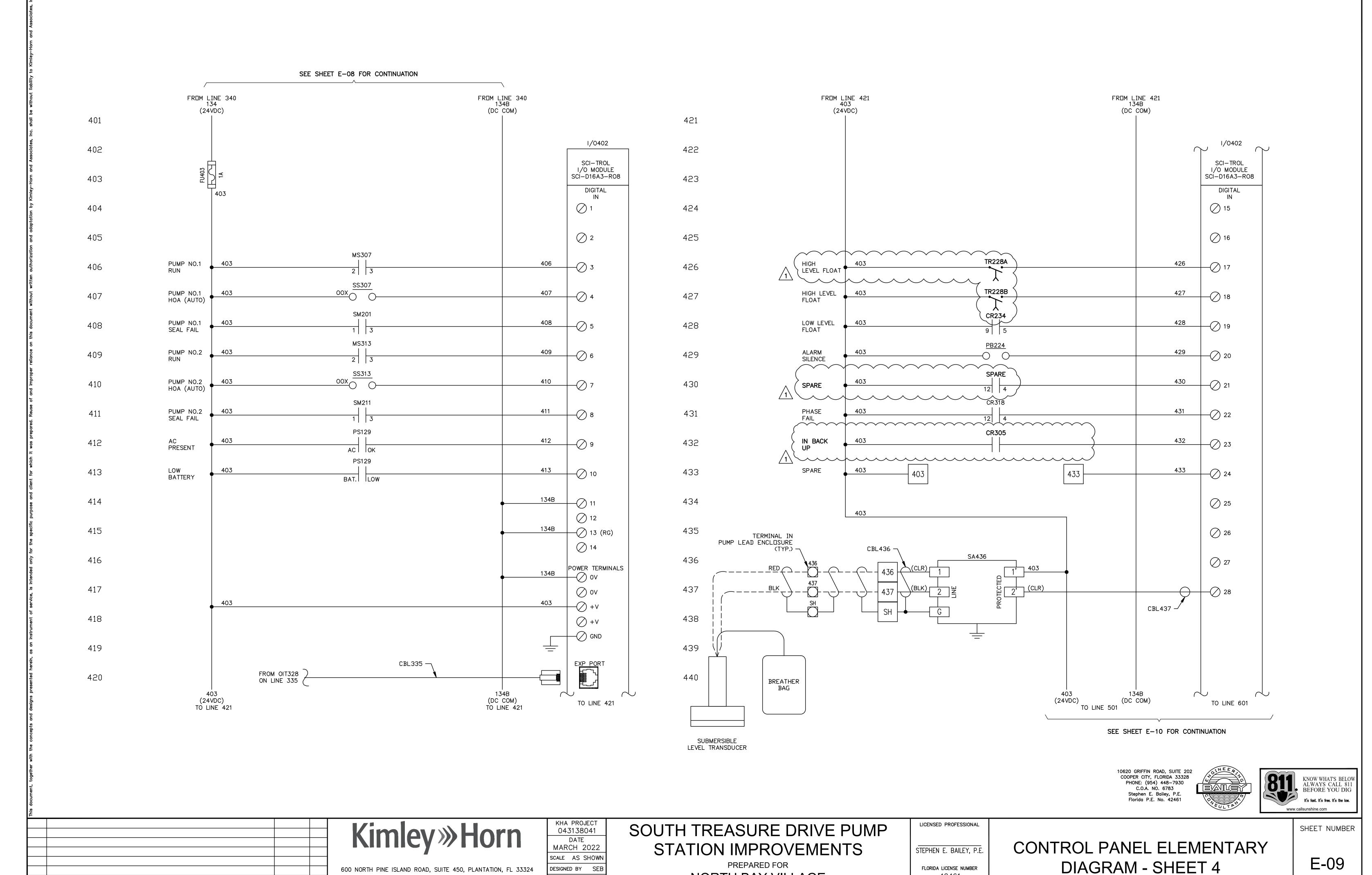
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CONTROL PANEL ELEMENTARY DIAGRAM - SHEET 2

SHEET NUMBER



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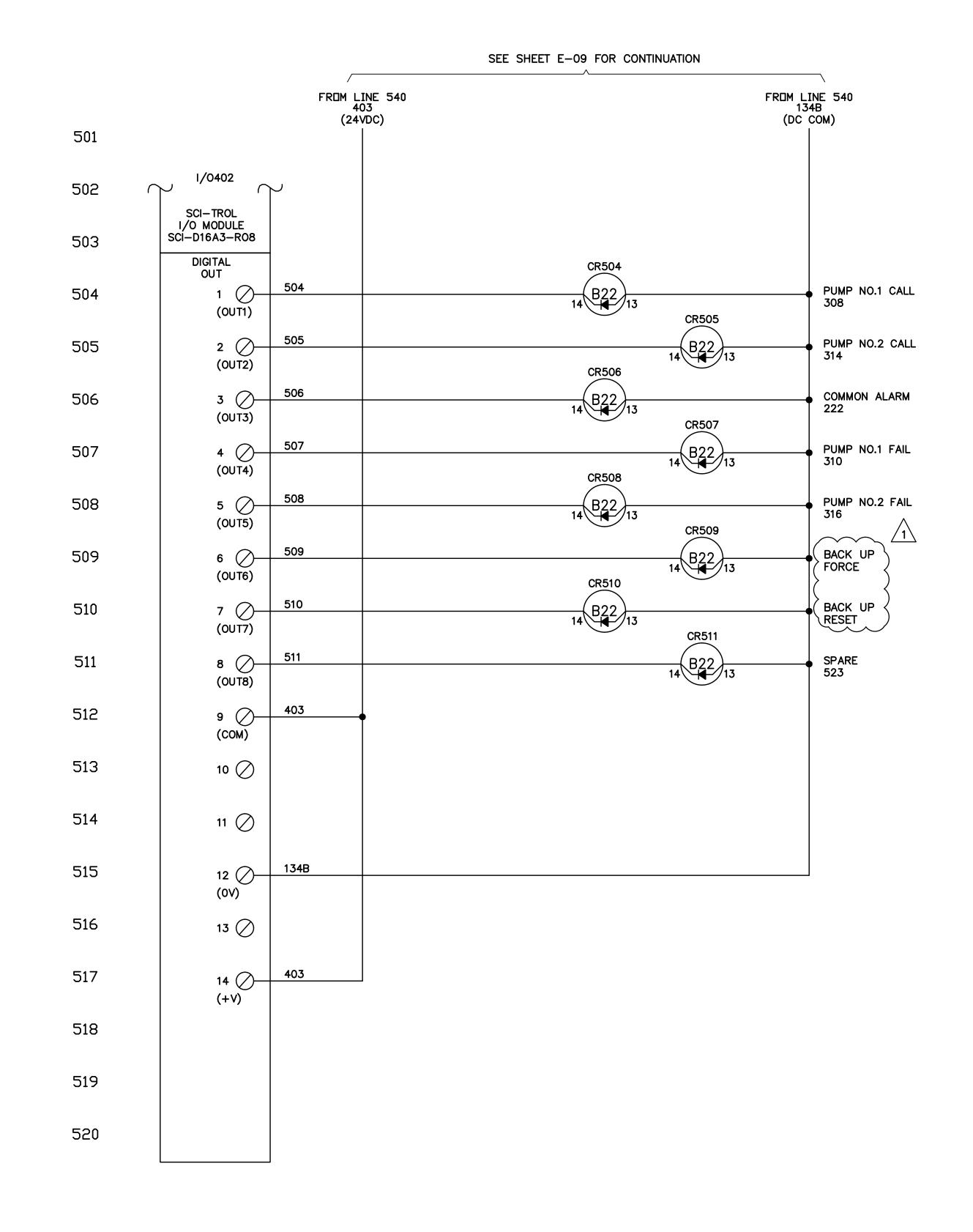
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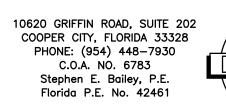
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CONTROL PANEL ELEMENTARY
DIAGRAM - SHEET 5

SHEET NUMBER