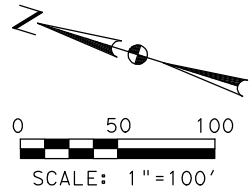
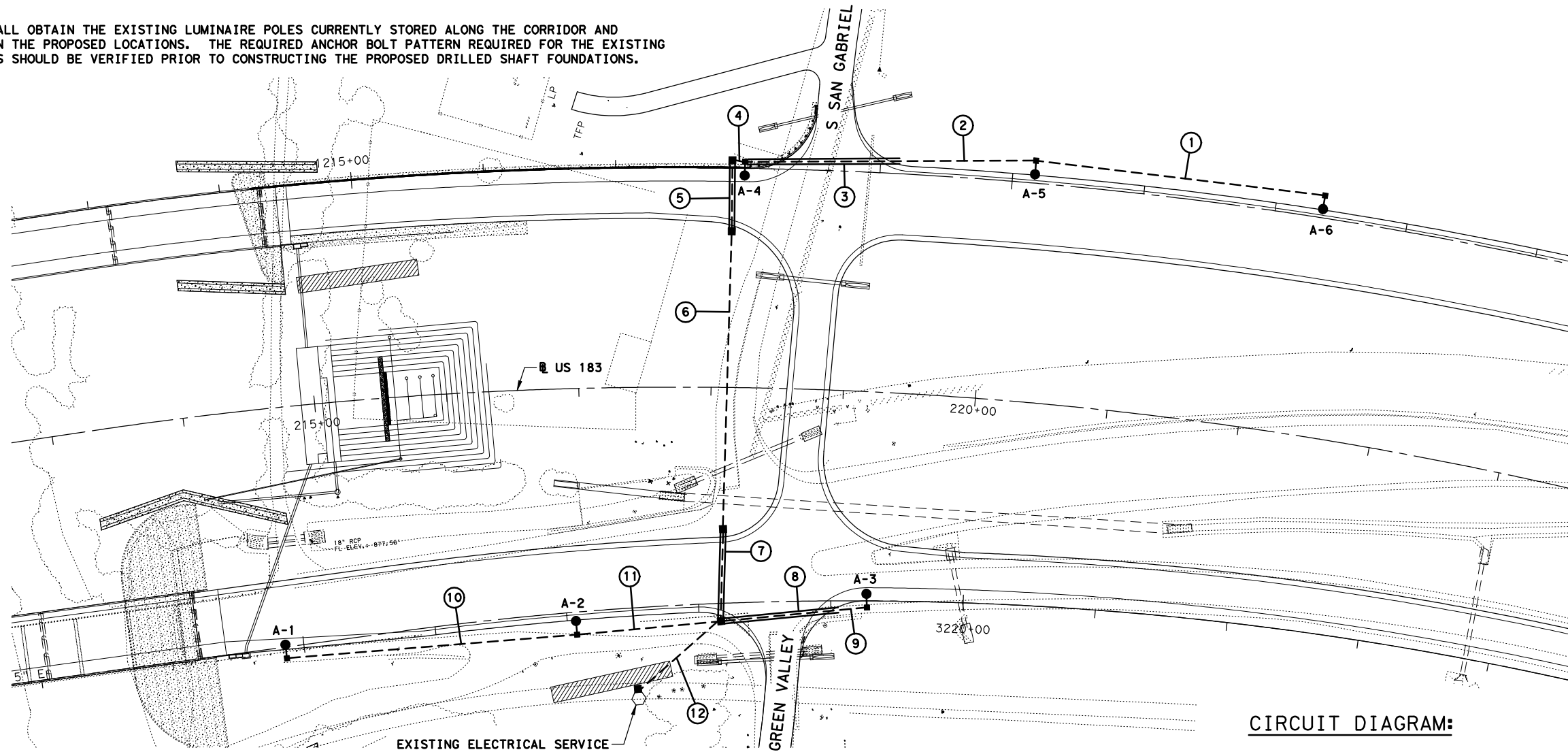


## NOTE:

CONTRACTOR SHALL OBTAIN THE EXISTING LUMINAIRE POLES CURRENTLY STORED ALONG THE CORRIDOR AND INSTALL THEM IN THE PROPOSED LOCATIONS. THE REQUIRED ANCHOR BOLT PATTERN REQUIRED FOR THE EXISTING LUMINAIRE BASES SHOULD BE VERIFIED PRIOR TO CONSTRUCTING THE PROPOSED DRILLED SHAFT FOUNDATIONS.

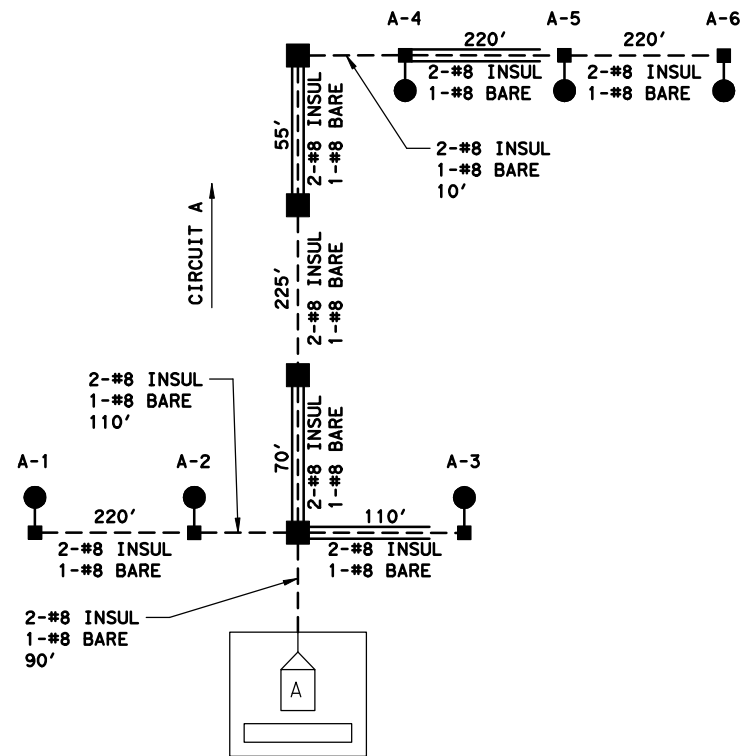
## LEGEND:

- PRO 40' LUMINAIRE POLE  
○ EXIST ELECTRICAL SERVICE  
■ PROP GROUND BOX  
--- PROP CONDUIT  
=== PROP CONDUIT (BORE)  
ⓧ CONDUIT RUN NUMBER



## CIRCUIT DIAGRAM:

CIRCUIT A



EXISTING ELECTRICAL SERVICE  
240/480 VOLT  
TYPE A SERVICE  
CIRCUITS 'A'

| ELEC. SERVICE NO. | STATION | ELECTRICAL SERVICE DESCRIPTION (SEE ED (4 & 5) - 03) | SERVICE CONDUIT SIZE | SERVICE CONDUCTORS NO./SIZE | MAIN CKT BKR POLE/AMP | TWO-POLE CONTACTOR AMPS | CIRCUIT NO. | BRANCH CKT BKR POLE/AMPS | BRANCH CIRCUIT AMPS | KVA LOAD |
|-------------------|---------|------------------------------------------------------|----------------------|-----------------------------|-----------------------|-------------------------|-------------|--------------------------|---------------------|----------|
| EXISTING          |         | ELC SRV TY A 240/480 060 (NS)SS(E)SP(O)              | 1 1/4"               | 3/#2                        | 2P/60                 | 60                      | A           | 2P/10                    | 4.5                 | 2.16     |

| CONVENTIONAL ILLUMINATION FIXTURE LOCATIONS AND TYPE |         |            |      |      |                      |                    |
|------------------------------------------------------|---------|------------|------|------|----------------------|--------------------|
| POLE NO.                                             | STATION | LOCATION   | WATT | TYPE | STANDARD TYPE        |                    |
| A-1                                                  | 214+59  | 189.21' RT | 250  | HPS  | INS RD IL AM (TY SA) | 40T - 8 (.25 KW) S |
| A-2                                                  | 216+94  | 185.92' RT | 250  | HPS  | INS RD IL AM (TY SA) | 40T - 8 (.25 KW) S |
| A-3                                                  | 219+26  | 162.94' RT | 250  | HPS  | INS RD IL AM (TY SA) | 40T - 8 (.25 KW) S |
| A-4                                                  | 218+23  | 170.71' LT | 250  | HPS  | INS RD IL AM (TY SA) | 40T - 8 (.25 KW) S |
| A-5                                                  | 220+30  | 182.59' LT | 250  | HPS  | INS RD IL AM (TY SA) | 40T - 8 (.25 KW) S |
| A-6                                                  | 222+38  | 182.47' LT | 250  | HPS  | INS RD IL AM (TY SA) | 40T - 8 (.25 KW) S |

| ESTIMATED QUANTITIES (THIS SHEET ONLY) |                                     |      |             |
|----------------------------------------|-------------------------------------|------|-------------|
| ITEM-CODE                              | DESCRIPTION                         | UNIT | SHEET TOTAL |
| 416-2029                               | DRILL SHAFT (RDWY ILL POLE) (30 IN) | LF   | 48          |
| 610-2064                               | RELOCATE RD IL ASM (TRANS - BASE)   | EA   | 6           |
| 618-2018                               | CONDT (PVC) (SCHD 40) ( 2")         | LF   | 1000        |
| 618-2019                               | CONDT (PVC) (SCHD 40) (2") (BORE)   | LF   | 330         |
| 620-2011                               | ELEC CONDR (NO. 8) BARE             | LF   | 1330        |
| 620-2012                               | ELEC CONDR (NO. 8) INSULATED        | LF   | 2660        |
| 624-2008                               | GROUND BOX TY A (122311) W/ APRON   | EA   | 5           |

| CONDUIT AND CONDUCTOR SCHEDULE |            |            |                            |            |            |                         |            |
|--------------------------------|------------|------------|----------------------------|------------|------------|-------------------------|------------|
| CIRCUIT                        | RUN NUMBER | CONDUIT    |                            | CONDUCTOR  |            |                         |            |
|                                |            | # CONDUITS | CONDT (PVC) (SCHD 40) (2") | # CONDUITS | CONDUCTORS | ELEC CONDR (NO. 8) BARE | CONDUCTORS |
| A                              | 1          | 1          | 220                        |            | 1          | 220                     | 2          |
| A                              | 2          | 1          | 105                        |            | 1          | 105                     | 2          |
| A                              | 3          |            |                            | 1          | 115        | 1                       | 115        |
| A                              | 4          | 1          | 10                         |            | 1          | 10                      | 2          |
| A                              | 5          |            |                            | 1          | 55         | 1                       | 55         |
| A                              | 6          | 1          | 225                        |            | 1          | 225                     | 2          |
| A                              | 7          |            |                            | 1          | 70         | 1                       | 70         |
| A                              | 8          |            |                            | 1          | 90         | 1                       | 90         |
| A                              | 9          | 1          | 20                         |            | 1          | 20                      | 2          |
| A                              | 10         | 1          | 110                        |            | 1          | 110                     | 2          |
| A                              | 11         | 1          | 220                        |            | 1          | 220                     | 2          |
| A                              | 12         | 1          | 90                         |            | 1          | 90                      | 2          |
| TOTAL                          |            |            | 1000                       |            | 330        | 1330                    | 2660       |

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

RESPONSIBLE ENGINEER:  
BROWN & GAY ENGINEERS, INC.  
TBPE FIRM REGISTRATION NO 1046  
JEFFREY A. DURSO, P.E.  
TEXAS REGISTRATION NO. 95653

3/11/2011

**BROWN & GAY** Brown & Gay Engineers, Inc.  
Houston • Fort Worth • Austin • Frisco

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Texas Department of Transportation

ILLUMINATION  
PLAN LAYOUT  
US 183  
AT SOUTH SAN GABRIEL DR/  
GREEN VALLEY DR

|                 |           |                   |            |
|-----------------|-----------|-------------------|------------|
| SCALE : 1"=100' |           | PROJECT NO.       |            |
| DWN : ON        | CKD : JD  | PTF 2009 (886)    |            |
| STATE           | DIST. NO. | FED. RD. DIV. NO. | COUNTY     |
| TEXAS           | 14        | 6                 | WILLIAMSON |
| CONT.           | SECT.     | JOB               | HWY. NO.   |
| 0151            | 04        | 063,ETC           | US 183     |