SCHEMATIC BA-34-14 / BA-34-15

E-P-1419

75-161559

E-P-1416

P-1422

75-161686

50-147952

E-MH-1503

WIRE SPLICE POINT(SRP)

WIRE SPLICE POINT(SRP)

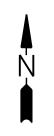
CONOVALOFF SUBSTATION

TO PD-0224

(UI)

E-MH-1502

550



SCHEMATIC LEGEND UNLESS NOTED OTHERWISE C-3-UA750K <u>C-3-UA40K</u> C-3-UA2K E-3-UA750K E-3-UA40K E-UA2K DOUBLE SLASH LINES INDICATE REMOVAL

E-PD-141 600A GOS E-PD-1418 826′ C-P-1431 E-P-1430 277/480V 1000-273660 120/208V N. 0. 1152' TO P-1326 <del>←</del> 609′ C-PD-1428 600A GOS E-PD-1429 600A GOS C-F.I. E-PD-0225 600A GOS

## EASEMENTS

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DESIGN LUCAS M OFFICE: MOBILE:

PROJECT LEADER: SHANNON EMMONS MOBILE: (602)818-9266 INSPECTIONS:

OFFICE: (602)236-0676 CONSTRUCTION CONSULTANT MONK JOHNSON MOBILE: (602)527-3005

### PROJECT NOTES SRP ELECTRIC SERVICE SPECIFICATIONS ARE AVAILABLE ON-LINE AT: HTTP://www.srpnet.com/electric/business/specs CUSTOMER IS RESPONSIBLE FOR: O. PROVIDING SRP VEHICLES WITH A MINIMUM 12' WIDE AND 20' HIGH PERMANENT TRUCK ACCESS TO ALL SRP EQUIPMENT. ANY SES OR EXTERIOR METER ROOM ENTRANCE. EACH SERVICE ENTRANCE PULL SECTION SHALL OPEN DIRECTLY TOWARDS THE EXTERIOR METER ROOM ENTRANCE. THIS PROVIDES EQUIPMENT ACCESS FOR CABLE INSTALLATION. WITH A MINIMUM WIDTH OF 12', REMOVABLE SCREEN WALLS, PANELS, OR DOORS MAY BE USED AS AN ARCHITECTURAL FEATURE, PROVIDED THE ACCESS ROUTE COMPLIES TO SRP VEHICLE ACCESS REQUIREMENTS. VEHICLE ACCESS REQUIREMENTS. b. ALL CONDUIT (PVC. DB120, RATED FOR 90 DEGREES C CABLE, ASTM F512 WITH ALL ELBOWS BEING SCHEDULE 40 36" RADIUS), TRENCH, BACKFILL, COMPACTION, (UNLESS OTHERWISE SPECIFIED. ALL FILL BELOW AND AROUND ELECTRIC UTILITY FIXTURE FOUNDATION PADS SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY (AT OR NEAR OPTIMUM MOISTURE CONTENT) IN ACCORDANCE WITH ASTM D698. 1/2 CONTROLLED LOW STRENGTH MATERIAL BACKFILL MAY BE PLACED IN LIEU OF COMPACTED BACKFILL) AND MAINTENANCE OF TRENCH AND CONDUIT UNTIL WIRE IS PULLED. CONTACT SRP AND SCHEDULE A HOT ID AFTER LOCATING AND EXPOSING EXISTING STUBBED CONDUIT. c. INSTALLATION OF 3 PHASE TRANSFORMER PAD(S). TEMPLATES(S) AND GROUND ROD(S). d. STAMPED AND REGISTERED PROPERTY PINS AND FINAL GRADE STAKES FOR PAD AND TRENCH e. REVIEWING AND SIGNING OFF ON MATERIALS DELIVERED TO THE JOB SITE. f. ALL SURFACE RESTORATIONS AND LANDSCAPE REPAIRS. SRP'S POINT OF DELIVERY TO BE: XS.E.S., JUNCTION BOX, TRANSFORMER. SRP TO INSPECT THE FOLLOWING: TRENCHING, CONDUIT INSTALLATION, MANDREL (IF REQUIRED), EQUIPMENT PAD(S), COMPACTION AND SERVICE ENTRANCE SECTION. METERING PER EUSERC, SRP SPECIFICATIONS AND MUNICIPAL CODES. SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS FOR ALL PROPOSED 400AMP OR LARGER SERVICE ENTRANCE SECTION, DOUBLE RESIDENTIAL METER PEDESTALS, AND COMMERCIAL SAFETY SOCKET PEDESTALS TO COMMERCIAL NEW BUSINESS FOR APPROVAL PRIOR TO PURCHASE AND/OR MANUFACTURING. SUCH DRAWINGS SHALL INDICATE THE PROJECT AND CUSTOMER NAME, SRP JOB NUMBER, JOB ADDRESS, CONTRACTORS NAME AND PHONE NUMBERS. SUBMIT TO: SHOPDRAW@SRPNET.COM FOR THAT PORTION OF THE FACILITY LOCATED WITHIN PUBLIC UTILITY EASEMENTS, THIS SUBMITTAL IS MADE FOR NOTIFICATION PURPOSES ONLY. GRAPHIC SYMBOLS (SHADED SYMBOL INDICATES EXISTING FACILITY) E-ELECTRIC C-COMMUNICATION W-WATER G-GAS SD-STORM S-SEWER E "E" WITHOUT CIRCLE INDICATES EXISTING TRENCH - E - "E" WITH CIRCLE INDICATES PROPOSED TRENCH TYPICAL SRP ABBREVIATIONS ✓ ✓ UNDERGROUND STREETLIGHT CONDUCTOR — - — - — UNDERGROUND SERVICE CONDUCTOR — — — — UNDERGROUND SECONDARY CONDUCTOR F/SW = FRONT OF SIDEWALK PROPOSED UNDERGROUND TRENCH/BORE B/SW = BACK OF SIDEWALK EXISTING UNDERGROUND TRENCH/BORE F/C = FRONT OF CURB B/C = BACK OF CURB INDICATES ABANDONMENT E/P = EDGE OF PAVEMENT L/G = LIP OF GUTTER SERVICE ENTRANCE SECTION (S. E. S.) R/W = RIGHT OF WAY PROPOSED MANHOLE (A) PROPOSED SINGLE-PHASE TRANSFORMER PB PROPOSED PULL BOX ( PROPOSED THREE-PHASE TRANSFORMER PROPOSED SPLICE POINT F PROPOSED FUSING ENCLOSURE → PROPOSED STREET LIGHT (S) PROPOSED SWITCHING ENCLOSURE

→ PROPOSED PRIVATE LIGHT (STAKED BY CUSTOMER)

A-A MATCH POINTS FOR MULTIPLE SHEETS OF DRAWING

FIELD INSTALLATION STAMP

// DOUBLE SLASH LINES INDICATE REMOVAL

PROPOSED POLE AND RISER

PROPOSED FLUSH-MOUNTED J-BOX

PROPOSED ABOVE-GROUND J-BOX

EM ELECTRONIC MARKER

O PROPOSED WOOD POLE

\*\* WORK POINT BOX

|                       | 6N —   | CDOWELL RD |                 |                        |                      |  |  |
|-----------------------|--|------------|-----------------|------------------------|----------------------|--|--|
|                       | SURVEY AND PERMIT INFORMATION  |            |                 |                        |                      |  |  |
|                       | SRP SURVEY TO STAKE FOR LOCATION AND TIE FOR EASEMENTS.  CUSTOMER CONTROL POINTS REQUIRED: YES NO  |            |                 |                        |                      |  |  |
|                       | CUSTOMER'S SURVEY TO STAKE FOR LOCATION/CONSTRUCTION AND TIE FOR EASEMENTS.  CUSTOMER'S SURVEYOR MUST ATTEND PRE-CON MEETING.  SRP SURVEY TO STAKE FOR LOCATION, NO EASEMENT REQUIRED. |            |                 |                        |                      |  |  |
|                       |  |            |                 |                        |                      |  |  |
|                       | ☐ 3RD PARTY EASEMENT REQUIRED.   |            |                 |                        |                      |  |  |
| ☐ NO SURVEY REQUIRED. |  |            |                 |                        |                      |  |  |
|                       | ☑ PERMIT REQUIRED: CITY OF <u>TOLLESON</u> COUNTY  |            |                 |                        |                      |  |  |
|                       |  | OTHER      |                 | PERMIT NO              |                      |  |  |
|                       | ☐ NO PERMIT REQ.   |            |                 |                        |                      |  |  |
|                       | <u></u>  |            |                 |                        |                      |  |  |
|                       | 3  |            |                 |                        |                      |  |  |
| NITAOTO               | <u>∕</u> MIANAYA   | 12/17/18   | SHEET 4 INCLUDE | ED TO OBTAIN EASEMENTS |                      |  |  |
| NTACTS:               |  | 12/12/18   | ORDER YELLOW PR |                        |                      |  |  |
| CONSULTANT:<br>AESTAS | <u></u> MIANAYA  | 11/19/18   | JOB CREATED     |                        |                      |  |  |
| (602)236-0897         | REV REVISED BY   | DATE       |                 | REVISION DESCRIP       | TION                 |  |  |
| (602) 329-9361        | NATURAL GAS YES NO X   |            |                 |                        |                      |  |  |
| LEADER:               | JOB NAME PAC - DE  | SERT OAS   | IS ELEM SC      | H CLSRM & GYM          | Call at least two fu |  |  |

ADDRESS/LOCATION 8802 W MCDOWELL RD

CONTACT ENRIQUE "LUPE" OCHOA

BILLING ACCT NO.

40/ACRE BA-34-14

AMP WO T3101441

cost center 22640 ROUTING CODE DDY+10

FIS JO

C = CONSTRUCT

R = REMOVE T = TRANSFER

A = ABANDON

P PROPOSED I PHASE PULLING ENCLOSURE

(13) PROPOSED 4/0 PRIMARY TAP ENCLOSURE

BAR INDICATES FRONT OF DEVICE

(C) PROPOSED CAPACITOR BANK

PROPOSED 3 PHASE / FEEDER PULLING ENCLOSURE

F) FOR MOST PRIMARY DEVICES OTHER THAN TRANSFORMERS.
NO BAR ABOVE THE LETTER INDICATES AN EXIST. FACILIT

NO BAR IN PAD INDICATES FACILITY IS EXISTING

A SHADED BAR INDICATES FACILITY IS EXISTING

VICINITY MAP

W THOMAS RD

\_PHONE <u>602-568-8995</u>

Call at least two full working days before you begin excavation.

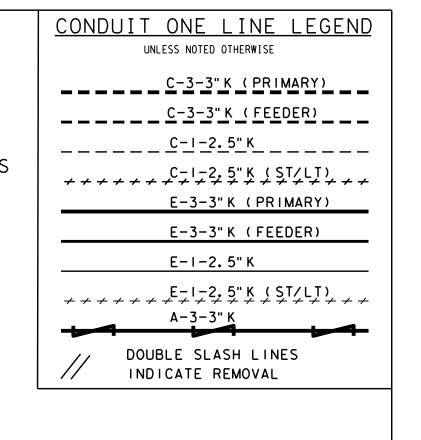
ARTZONA81

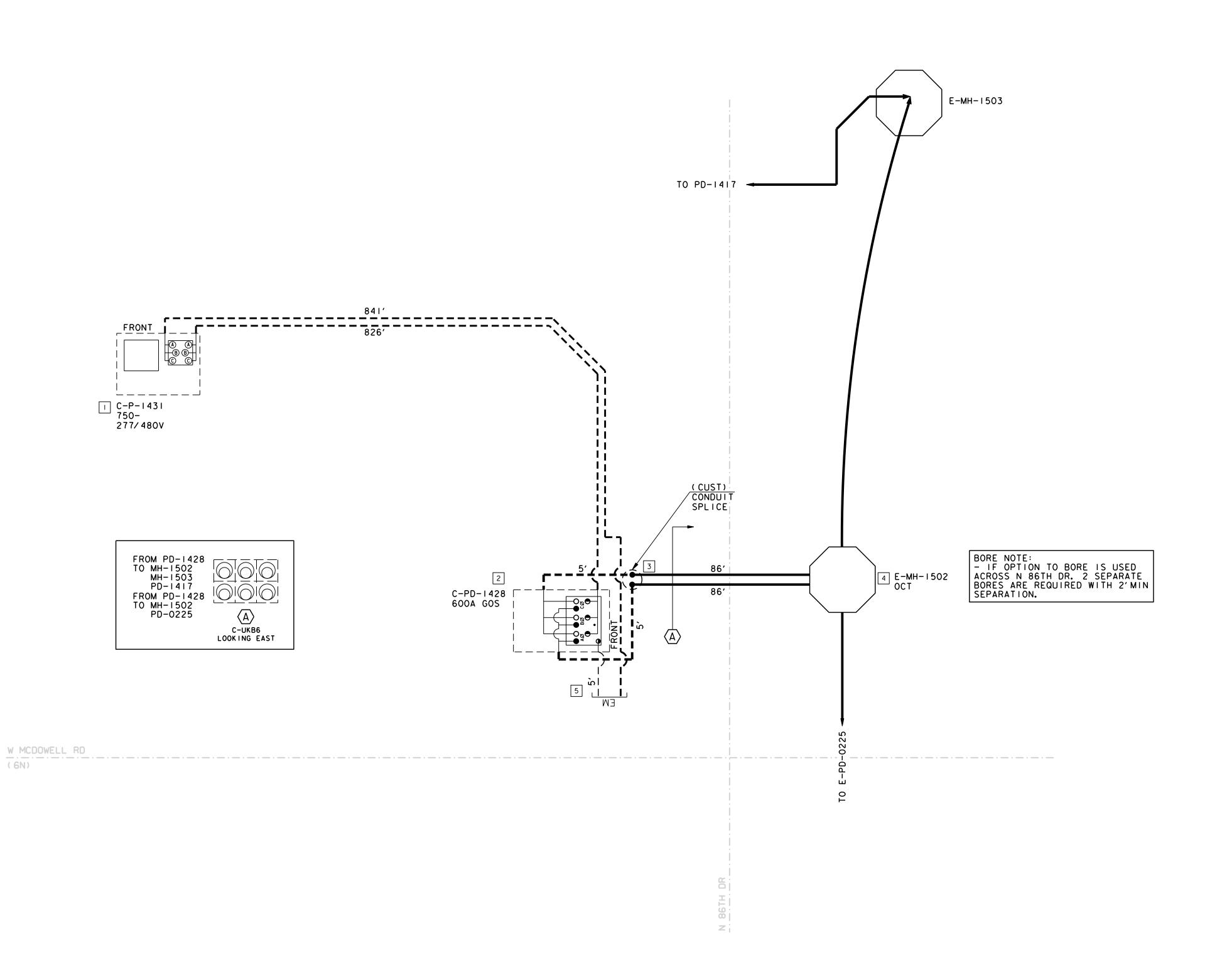
Fizana Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-1T (182-5348) In Maricopa County: (602)263-1100

# CONDUIT ONE LINE







EASEMENTS

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PROJECT LEADER:
SHANNON EMMONS

MOBILE: (602)818-9266

INSPECTIONS:
OFFICE: (602)236-0676

CONSTRUCTION CONSULTANT:
MONK JOHNSON

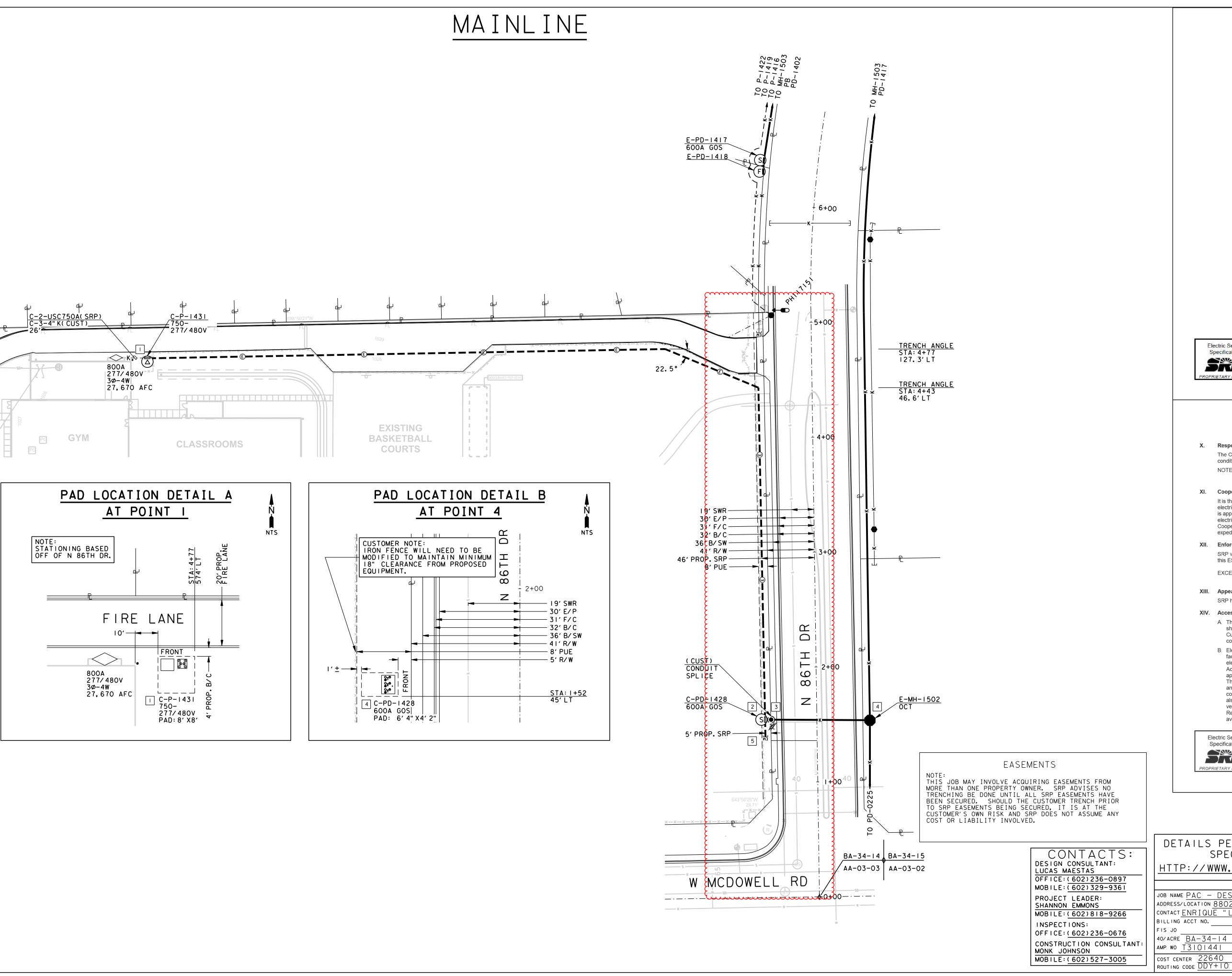
MOBILE: (602) 527-3005

JOB NAME PAC - DESERT OASIS ELEM SCH CLSRM & GYM
ADDRESS/LOCATION 8802 W MCDOWELL RD

CONTACT ENRIQUE "LUPE" OCHOA PHONE 602-568-8995

BILLING ACCT NO. MAP 1/4 SW \$34 T2N RIE

NATURAL GAS YES NO X



### CABLE PULLING TAPE, 1,500' REEL



| SRP Material Item No.<br>5031726 |   |  |  |  |  |
|----------------------------------|---|--|--|--|--|
| Description                      |   |  |  |  |  |
| Noun                             | Таре  |  |  |  |  |
| Adjective                        | Cable pulling   |  |  |  |  |
| Size                             | 1,500' reel   |  |  |  |  |
| Туре                             | Polyester, 2,500 lb.  |  |  |  |  |
| Style                            | Pre-lubricated  |  |  |  |  |
| Use                              | Street lights, secondary and service conduits                             |  |  |  |  |
| Special Reference                | Reel size: 9" outside traverse,<br>11 ¾" flange diameter, 1 ¾" arbor hole |  |  |  |  |
| Approved Suppliers               | Part Number   |  |  |  |  |
| A-D Technologies                 | WP251500  |  |  |  |  |
| ARNCO Corp                       | WP251500  |  |  |  |  |
| FiberTek, Inc.                   | WP2500-W  |  |  |  |  |
| Herculine                        | Use description   |  |  |  |  |
| L.H. Dottie                      | DWP1502   |  |  |  |  |
| NEPTCO                           | WP2500P-1.5   |  |  |  |  |
|                                  |   |  |  |  |  |

| Electric Service<br>Specifications | CONTRACTOR-SUPPLIED MATERIAL<br>CABLE PULLING TAPE, 1,500' REEL | ISSUE DATE: 08/02/04  REV. DATE: 12/15/16  APPROVAL: N. Sabbah |
|------------------------------------|---|--|
| PROPRIETARY MATERIAL               | 11-6  | ESS11-06.doc   |

### REQUEST FOR SERVICE

The Customer has the responsibility to maintain their wiring and equipment in safe operating condition. SRP cannot accept any responsibility for the Customer's wiring and equipment. NOTE: SRP gives no warranty, expressed or implied, as to the adequacy, safety or other characteristic of any equipment, wiring or device and assumes no responsibility with

It is the sincere desire of SRP to provide and maintain dependable, safe, and satisfactory electric service in a courteous and efficient manner. Cooperation of Customers and their agents is appreciated. It is necessary to provide SRP with information leading to new or increased electric service early in the development of plans to aid the proper scheduling of service. Cooperation of all interested parties and strict adherence to the specifications in the manual will expedite satisfactory electric service.

### XII. Enforcement of Specifications

SRP will allow a 45-day grace period prior to enforcing new or revised specifications placed in

EXCEPTION: Hazardous or safety-related requirements resulting in new or revised specifications shall be enforced immediately.

SRP has an appeal process. Contact Customer Services for more information.

### XIV. Access to Service Entrance Section/Metering on Customer's Premises

A. The SES/metering, and any other SRP equipment installed on the Customer's premises, shall be readily accessible by SRP's authorized employees or agents at all times. The Customer shall be required to relocate the SES if SRP access is later restricted by any condition (see Section 5 – Clearances and Section 9 – Metering & SES).

B. Electrically operated gates, which do not permit immediate 24-hour access to electric facilities for SRP personnel, could pose a safety hazard. Every existing or proposed electrically operated gate in SRP territory is required to have the approved SRP Restricted Access Switch assembly installed. Customers are responsible for installing the SRP approved switch, which will be wired to the gate controller, on electrically operated gates. The required lock and key switch will be available through SRP after payment for the lock and switch has been received. The switch will be installed by the Customer's gate service company and maintained by the Customer, according to SRP specifications. Customers are also required to provide the means of opening gates from the inside without the use of vehicles to activate the controller. This may require the installation of an additional SRP Restricted Access Switch assembly inside the gate if there is not an unsecured switch available for SRP use.

| Electric Service<br>Specifications | GENERAL INFORMATION REQUEST FOR SERVICE | ISSUE DATE: 04/15/86 REV. DATE: 10/19/12 APPROVAL: W. Laramie |
|------------------------------------|---|---|
| PROPRIETARY MATERIAL               | 1-19                                    | ESS1-17to1-20.doc   |

DETAILS PERTAINING TO SRP ELECTRICAL SERVICE SPECIFICATIONS CAN BE FOUND AT:

HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS/

NATURAL GAS YES NO X JOB NAME PAC - DESERT OASIS ELEM SCH CLSRM & GYM

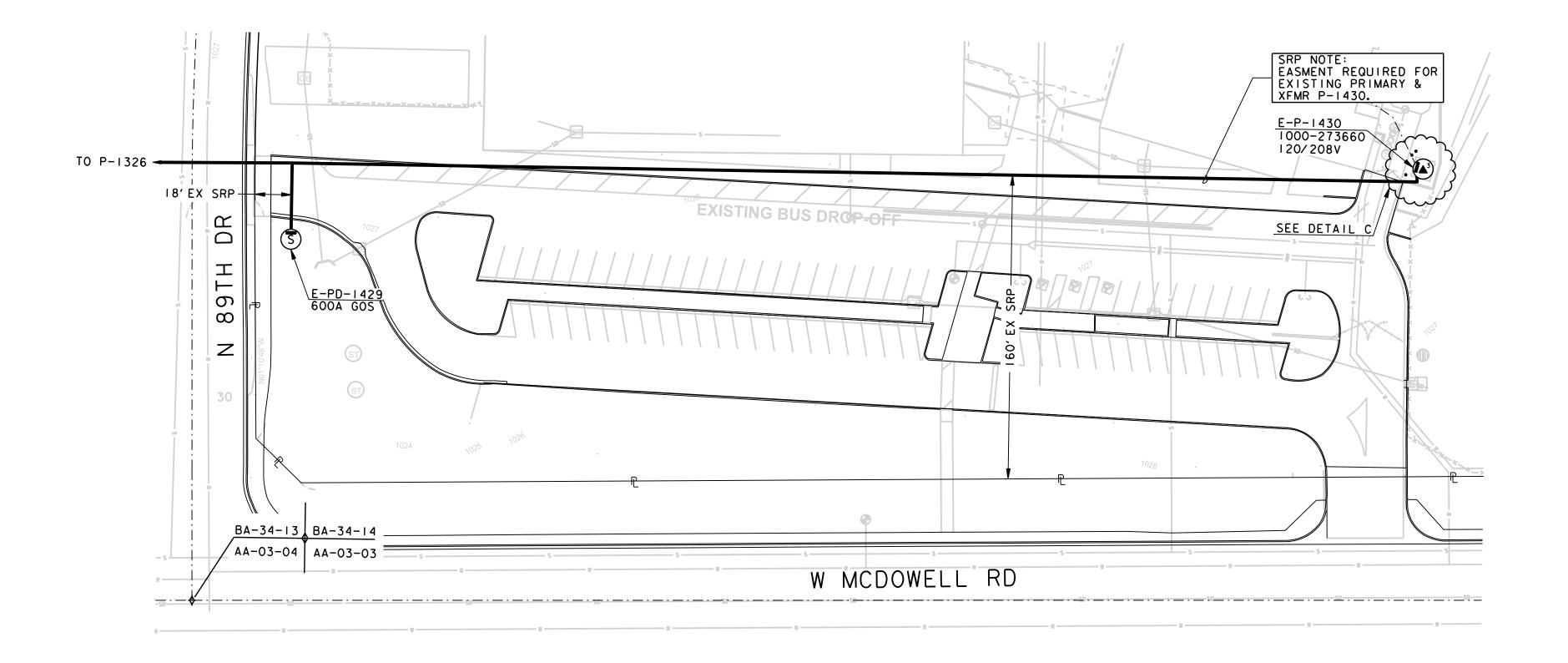
ADDRESS/LOCATION 8802 W MCDOWELL RD CONTACT ENRIQUE "LUPE" OCHOA PHONE 602-568-8995 BILLING ACCT NO.

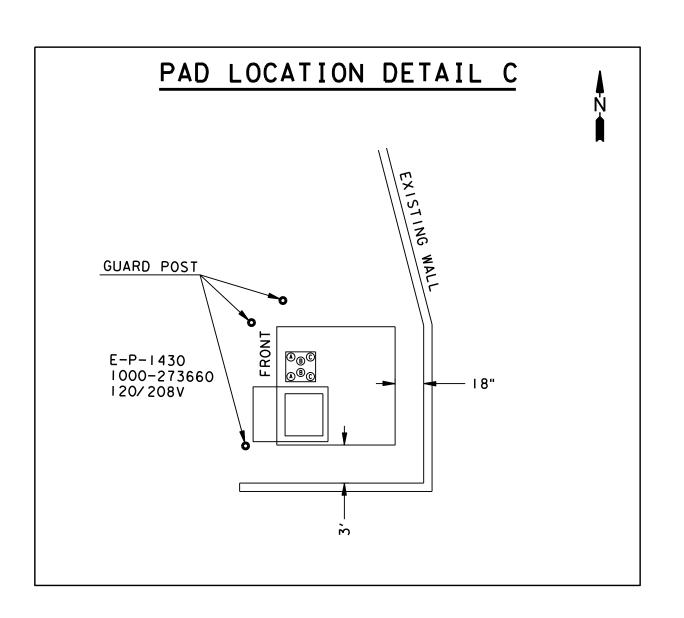
MAP 1/4 SW S 3 4 T2N R I E COORDS 3 3/8 E - 6 1/16N 40/ACRE BA-34-14 AMP WO T3101441 AMP VERSION



Dial 8-1-1 or 1-800-STAKE-IT (782-534 In Maricopa County: (602)263-110

# MAINLINE





## EASEMENTS

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MOBILE: (602)329-9361

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MOBILE: (602)818-9266

INSPECTIONS:
OFFICE: (602)236-0676
CONSTRUCTION CONSULTANT:
MONK JOHNSON
MOBILE: (602)527-3005

DETAILS PERTAINING TO SRP ELECTRICAL SERVICE

SPECIFICATIONS CAN BE FOUND AT:

HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS/

NATURAL GAS YES NO X

JOB NAME PAC - DESERT OASIS ELEM SCH CLSRM & GYM

ADDRESS/LOCATION 8802 W MCDOWELL RD

ADDRESS/LOCATION 8802 W MCDOWELL RD CONTACT ENRIQUE "LUPE" OCHOA PHONE 602-568-8995 BILLING ACCT NO.

FIS JO MAP 1/4 SW S 34 T2N R I E

40/ACRE BA-34-14 COORDS 3 3/8E - 6 1/16N

AMP WO T3101441 AMP VERSION

COST CENTER 22640

ROUTING CODE DDY+10

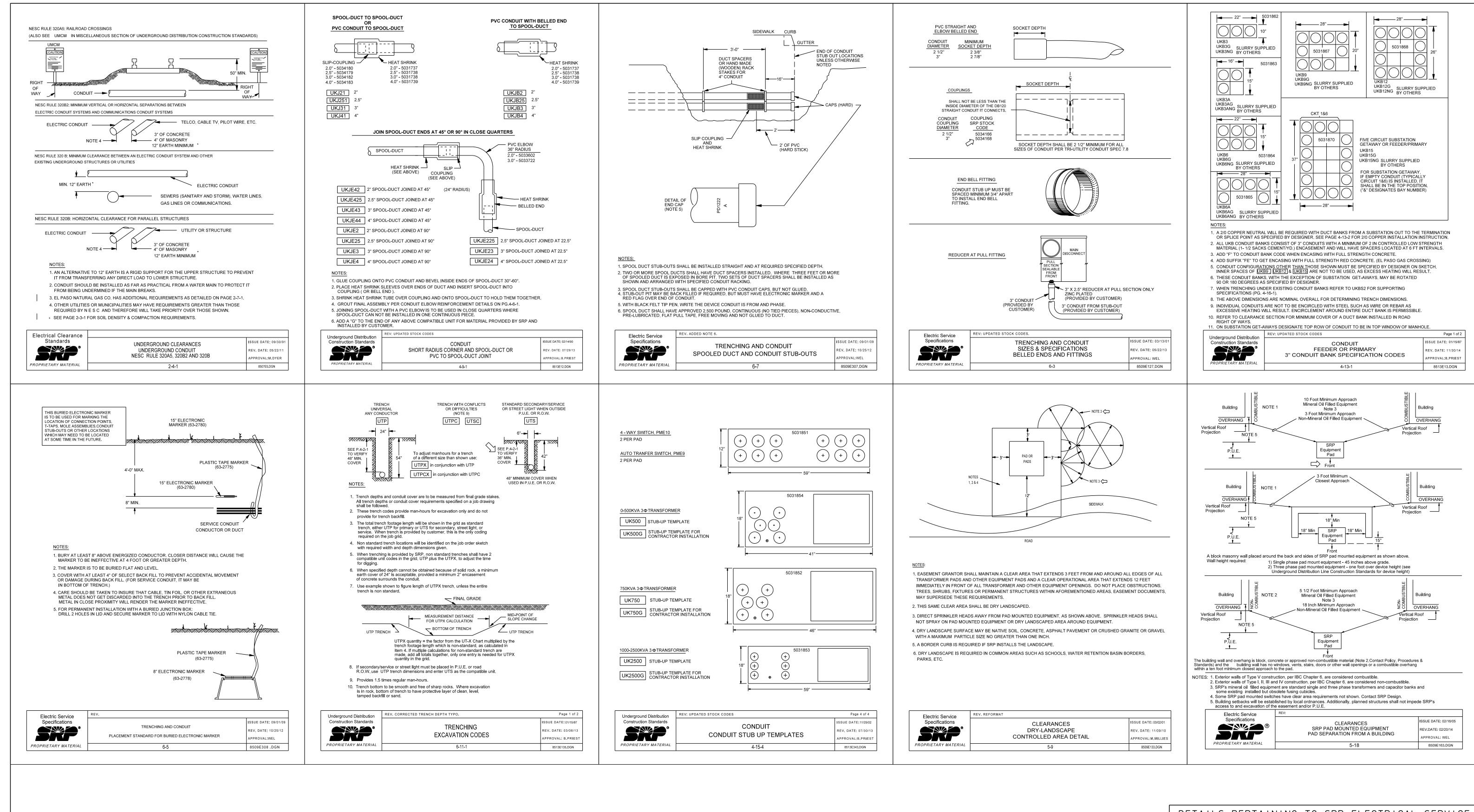
SHEET NUMBER 4 OF 6

Call at least two full working days before you begin excavation.

ARIZONA81

Arizona Biue Stake, inc.

Dial 8-1-1 or 1-800-STAKE-11 (182-5348)
In Maricopa County: (602)263-1100





HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS/ ADDRESS/LOCATION 8802 W MCDOWELL RD

CONTACTENRIQUE "LUPE" OCHOA PHONE 602-568-8995 BILLING ACCT NO. FIS JO MAP 1/4 SW 40/ACRE BA-34-14 CONSTRUCTION CONSULTANT

LUCAS MAESTAS

PROJECT LEADER:

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OFFICE: (602)236-0676

MOBILE: (602) 527-3005

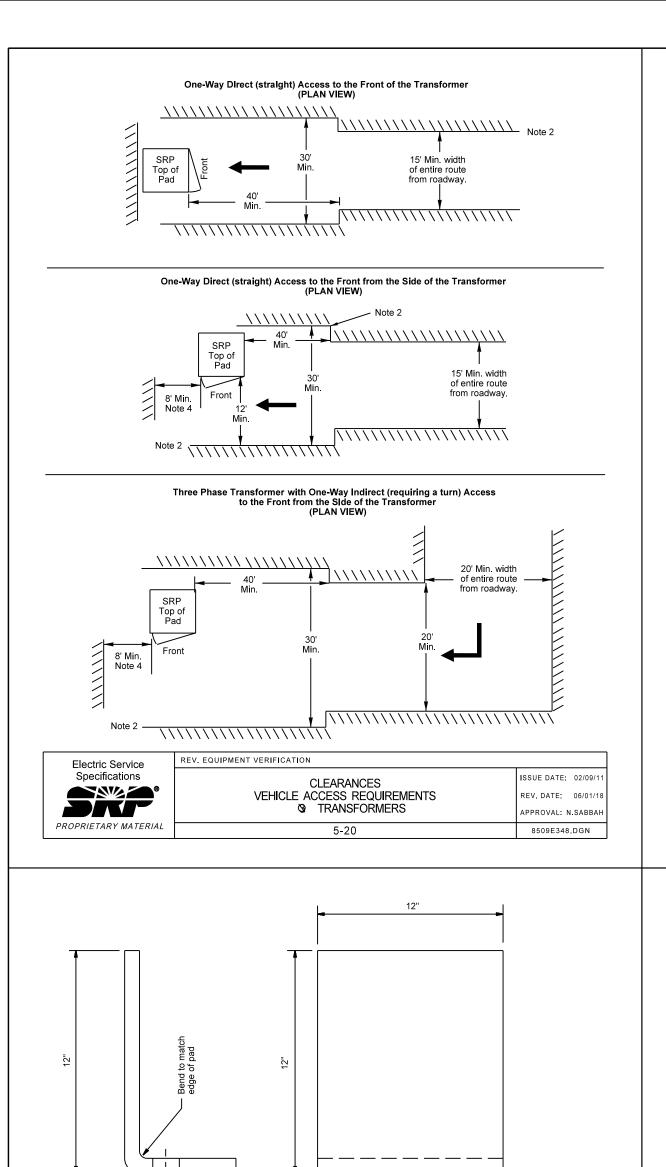
SHANNON EMMONS

INSPECTIONS:

MONK JOHNSON

coords 3 3/8E - 6 1/16N AMP WO T3101441 AMP VERSION COST CENTER 22640 SHEET NUMBER 5 OF 6 ROUTING CODE DDY+10

22x34frm.JD2 02-01-2016



12 OR 14 GAUGE GALVANIZED

ISSUE DATE: 02/02/05

REV. DATE: 02/02/1

PPROVAL: N.SABBA

8509E327.DGN

PROPRIETARY MATERIAL

TRANSFORMER PADS

PRECAST OR CAST-IN-PLACE PAD

750 - 2,500 kVA

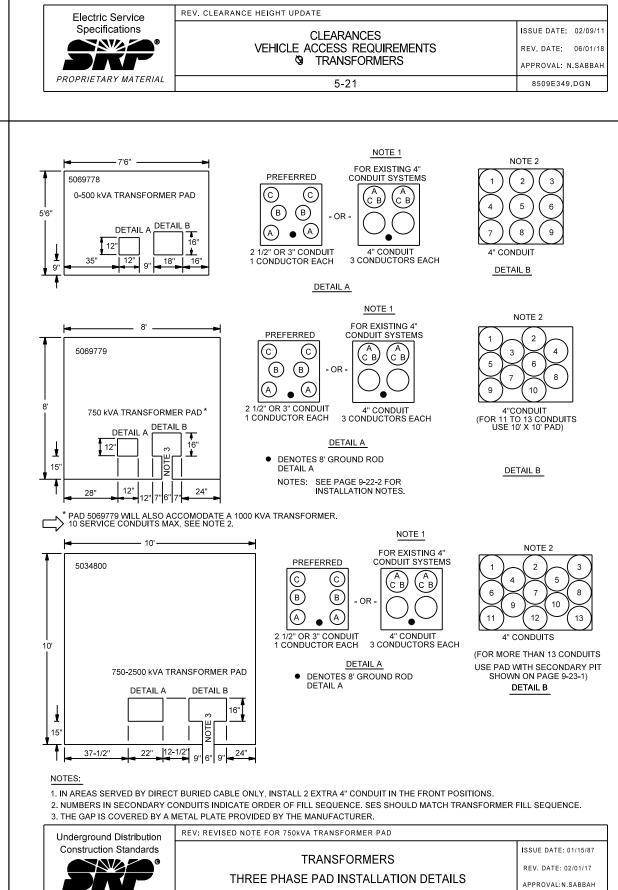
FOR THREE PHASE TRANSFORMER

FRONT

Electric Service

Specifications

REV. TITLE CHANGE 1,000 TO 750.



9-22-1

8513E141.DGN

1. These required access dimensions are in addition to the electrical clearance standards. See

These requirements are based on maneuvering requirements of the QMC. If these cannot be obtained, a crane will have to be used. Consult SRP Distribution Design.

4. 8' minimum clear space is required for backing and positioning beyond the equipment.

6. Consult Distribution Design for vehicle access to multiple pad-mounted equipment...

2. The Boundary of Traveled Way is any permanent obstacle to vehicle access (i.e., building, fence,

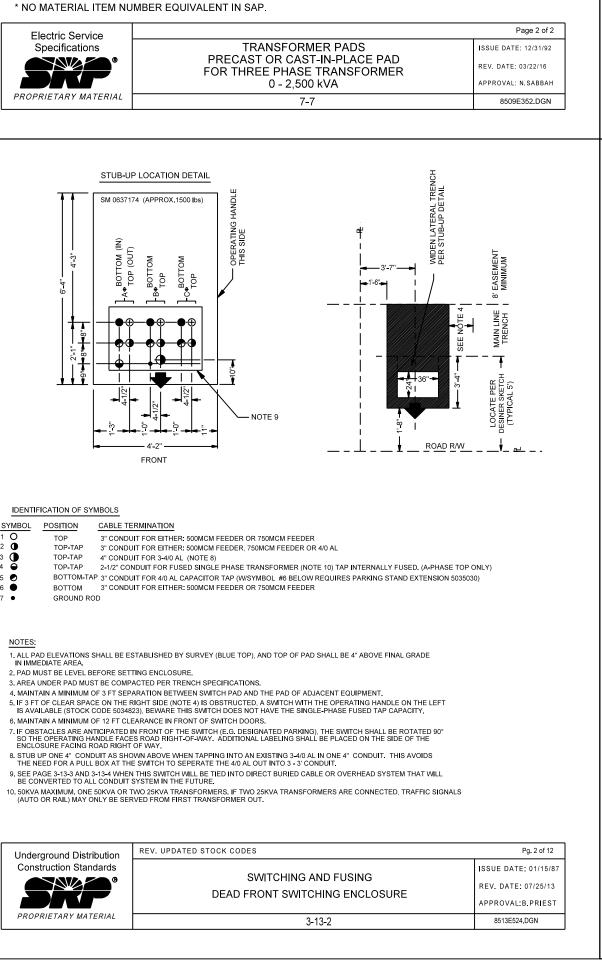
SRP's Electrical Clearance Standards book

5. Access way must support 80,000 lbs. GVW.

Customer equipment, landscape, ditch, curb, etc.).

Any Overhanging Obstacle

Top of Driving Surface



TRANSFORMER PADS

 The pad subgrade and trench backfill shall be compacted to 95% minimum of the standard proctor density. ABC backfill shall
not be used under the pad. A. 1/2 sack CLSM (controlled low-strength material), which is slurry backfill consisting of washed gravel (#57 aggregate per ASTM C33) and sand slurry stabilized with Portland cement (1/2 sack Portland cement per cubic yard) shall be in accordance with MAG section 728. SRP Material Item #5075313 is an approved alternate.

INSTALLATION INSTRUCTIONS - PAD SPECIFICATIONS

B. SRP inspectors shall approve the subgrade before the concrete pad is placed.

II. Top of pad shall be 4" minimum above surrounding grade and at sufficient elevation to prevent flooding.

III. Pad shall be located to allow access and oriented to provide a minimum of 12' of clear working space at front of unit. Maintain minimum clearance of 3' at sides and 18" at back of pad (see page 5-11, items 5-11).

IV. In "high and low voltage" opening/windows, stub-up conduit 2" above final top surface of pad. See SRP electrical plans for size and number of conduits.

VI. In the "low voltage" opening, see SRP electrical plans for size and number of conduits. For more than 13 secondary conduit, a pull-box is required under the pad secondary window. See PAGE 7-8-Secondary Pull-Box Placement for Three-Phase Transformer, 750 - 3000 kVA.

VII. Transformer pads shall be pre-cast; No pour-in-place pads shall be accepted EXCEPT when in use with a vault (see Distribution Design Standards: General Design Criteria for vault pad specifications).

VIII. Concrete shall be MAG Class AA (f 'c = 4,000 psi @ 28 days, SRP Material Item #0000240\*).

X. Pad lifting anchors shall be Dayton Superior P-52 SL 4 ton X 4 3/4" length. Use round recess when casting pad. Top of anchor shall be 9/16" below pad surface.

XIII. Install conduit plug to keep debris out of all conduits. See Section 11, Conduit Plug 1 1/2", 3" and 4".

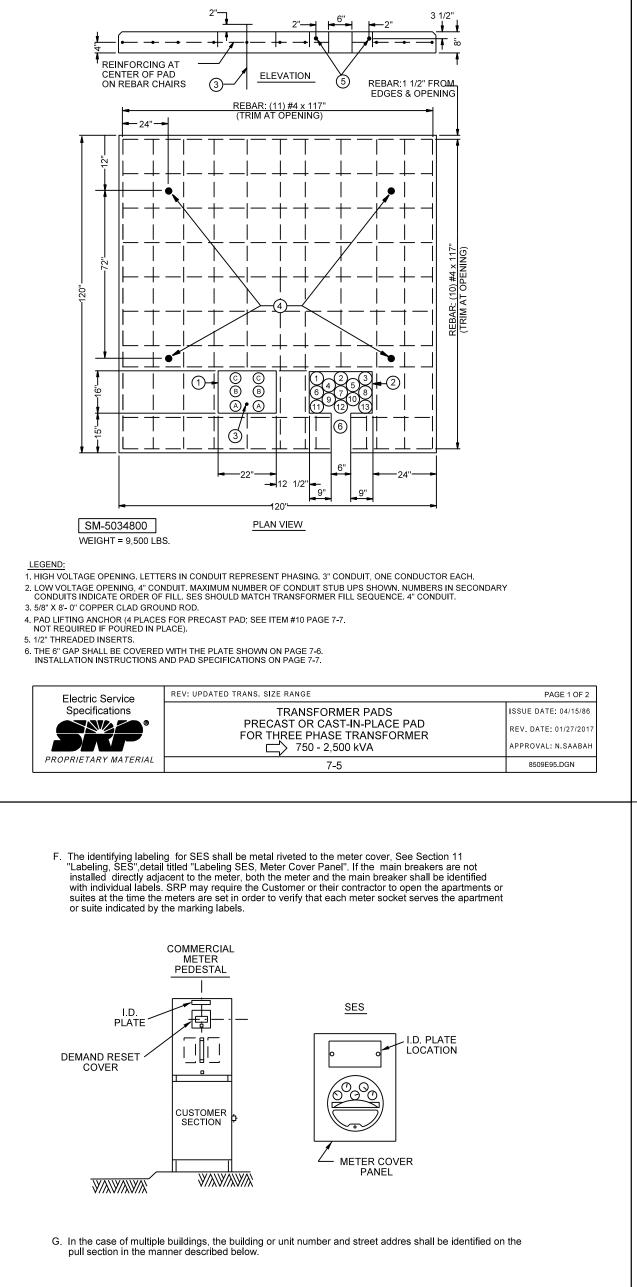
IX. SRP Approved Suppliers: Jensen Precast; Oldcastle, and Olson Precast.

XI. Reinforcing shall be per ASTM A615, gr. 60, #4 bars spaced as shown (equally).

XII. Surface shall be flat to within 1/16" across top surface. Top edge to be 45 chamfer.

V. Install 5/8" x 8' copper clad ground rod in the "high voltage" opening of the transformer pad. The top of the ground rod shall be 2" above top of transformer pad. If the Customer provides the pad, then they will also supply and install the ground rod.

PRECAST OR CAST-IN-PLACE PAD FOR 3-PHASE TRANSFORMER 0-2,500kVA



SERVICE ENTRANCE SECTION

METERING & SES

SERVICE ENTRANCE SECTION

ADDRESSING & IDENTIFICATION

9-11

Electric Service

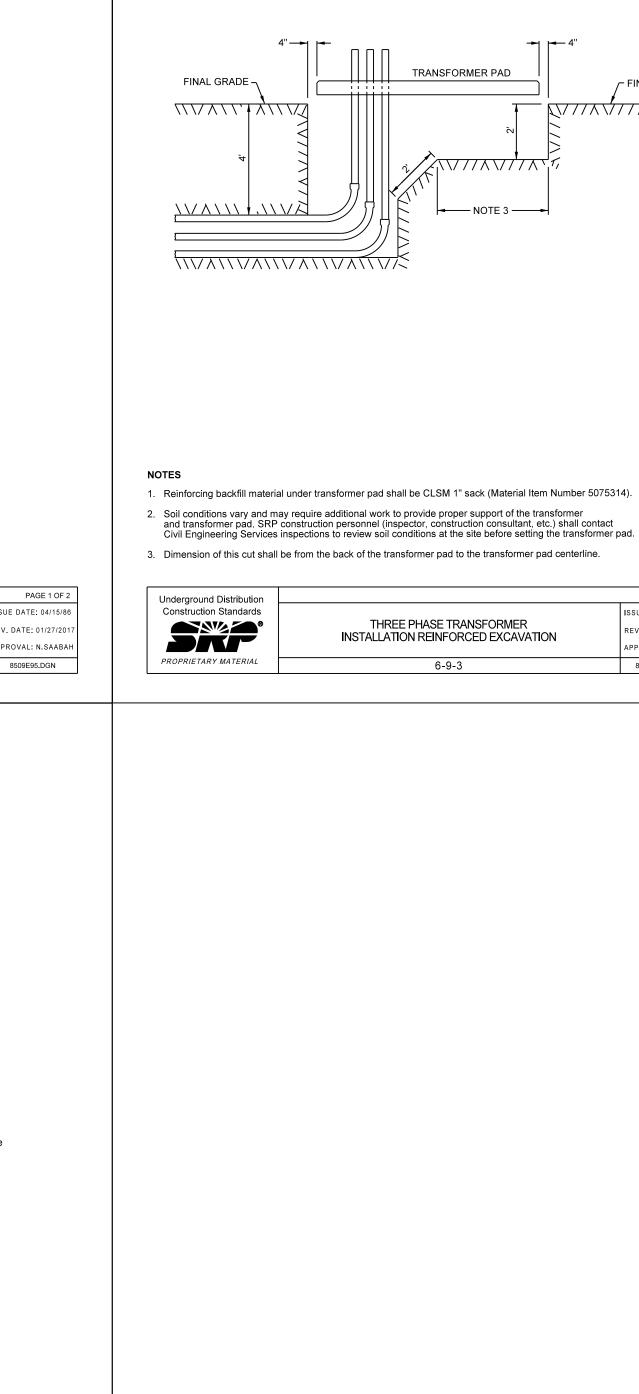
Specifications

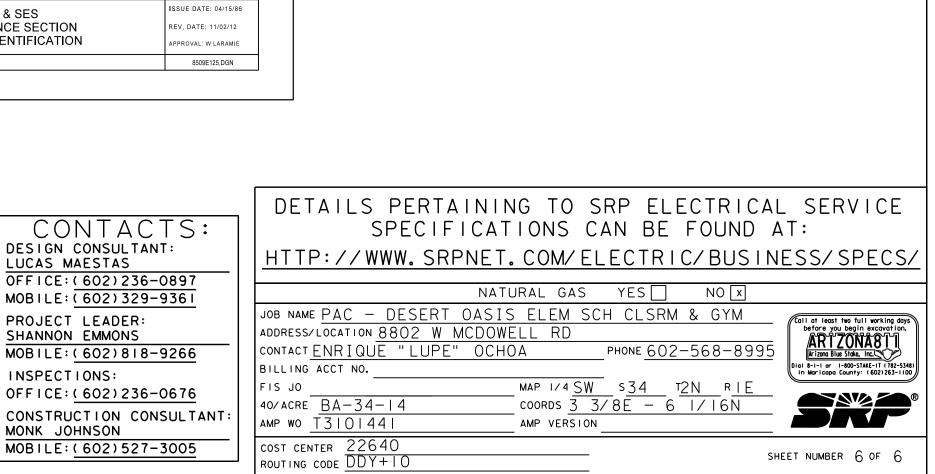
PROPRIETARY MATERIA

See Section 11,Labeling

SES Pull Section, Multiple Buildings

INSPECTIONS:





TRANSFORMER PAD

THREE PHASE TRANSFORMER

INSTALLATION REINFORCED EXCAVATION

— NOTE 3 —

- FINAL GRADE

ISSUE DATE: 10/20

8513E585.DGN

REV. DATE:

22x34frm.JD2 02-01-2016